



Connecticut
INDUSTRY

OCTOBER 1955



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Connecticut INDUSTRY

MANUFACTURERS' ASSOCIATION OF CONNECTICUT, INC.
VOL. 33 - NO. 10 - OCTOBER, 1955

L. M. BINGHAM, Editor

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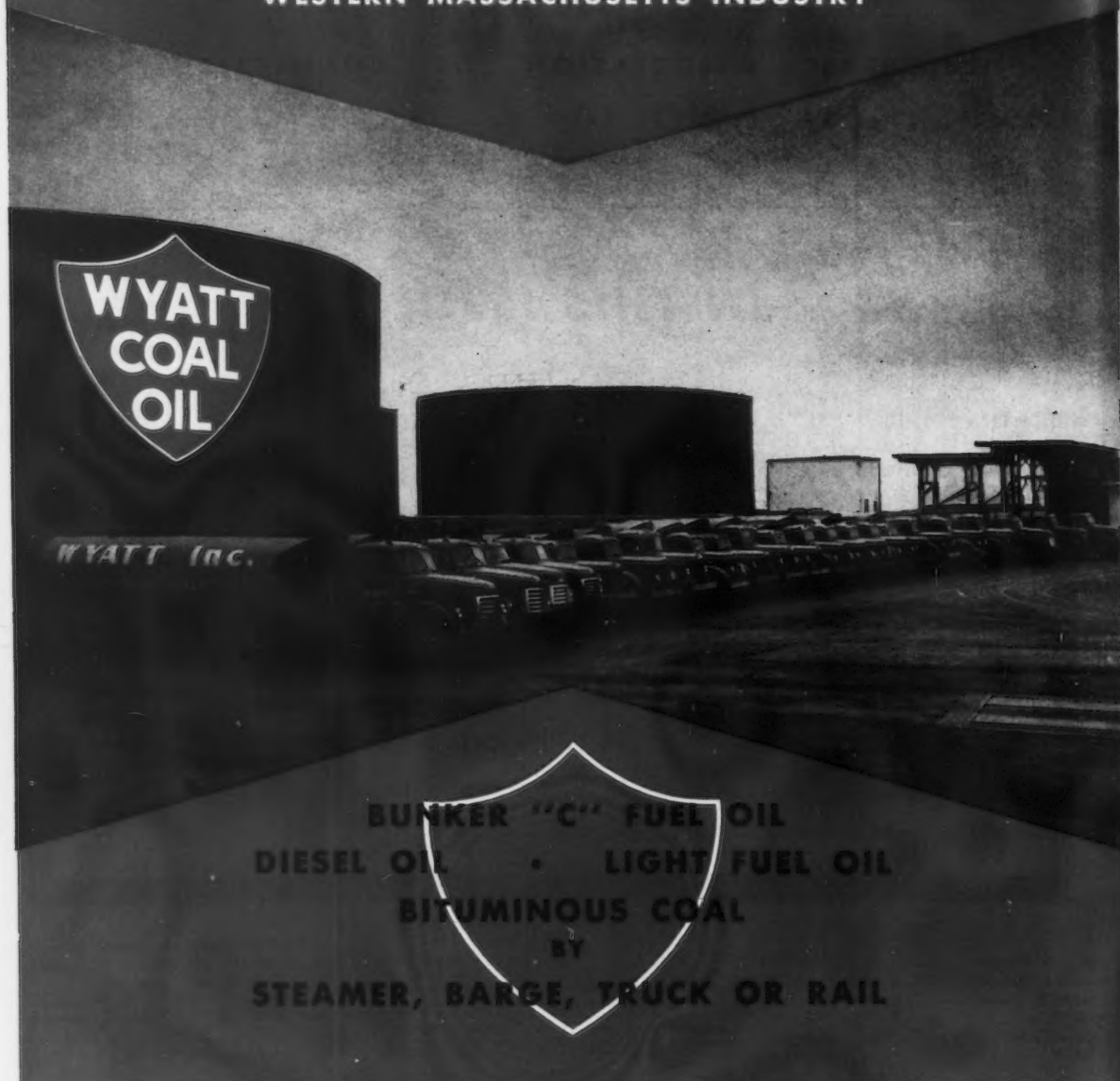
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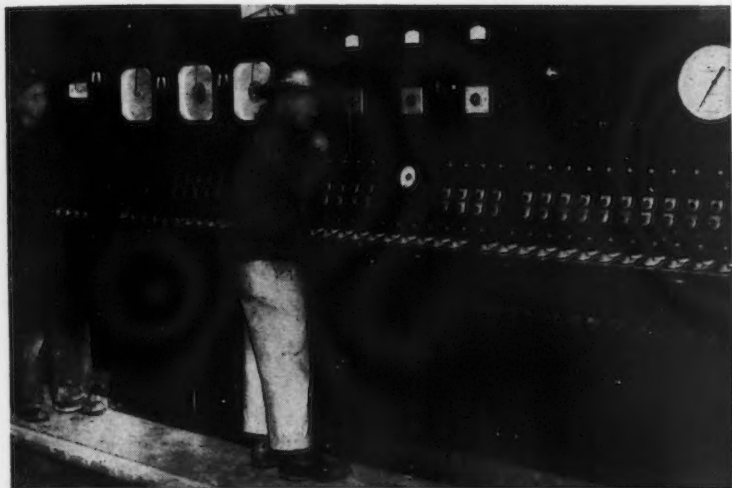
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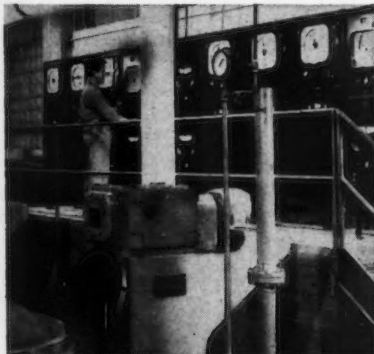
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Magic word, automation. Or push-button operation. It's a breath-taking concept, too — plants running practically unattended. Breath-taking — but not new.



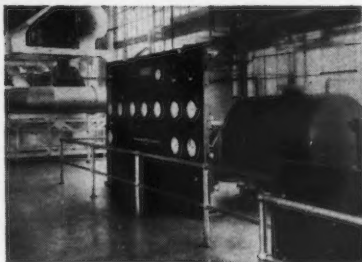
World's largest coal cleaning plant uses automation in lubricating system

THE HANNA COAL CO., Adena, Ohio, uses *Bristol Controls and Recorders* in its fully automatic time-controlled centralized system for mass lubrication. This system promotes safety and, above all, insures positive delivery of the right lubricant in the right quantities at the right time to all bearings, regardless of operating conditions.



BRISTOL COORDINATED CONTROL SYSTEM automatically controls operation of "Columbia" Activated Carbon Solvent Recovery Plant at the New York Daily News. Similar control systems are used in many other solvent recovery plants designed and supplied by Carbide and Carbon Chemicals Company, a Division of Union Carbide and Carbon Corporation.

AUTOMATION is often thought of in terms of plans or even dreams: here at the Buffalo Foam Rubber Products Plant of the Dunlop Tire and Rubber Corporation, it is a reality. This automatic plant, designed and built by Mechanical Handling Systems, Inc., Detroit, uses Bristol Dynamaster® Electronic Instruments and Automatic Controllers as part of a process employing today's most advanced automatic production techniques. The result — greater efficiency and productivity, lower costs, improved product, and stronger competitive position.



Twenty-one years ago . . .

'Way back in 1934, The Bristol Company led the way in the field of automation by developing the Bristol Systems of Coordinated Process Control.

These systems automatically controlled and coordinated all of the variables and operations of a process — such as the time of operation of valves, pumps, blowers, dampers, and the control, at a definite value or according to a time program, of variables that affected the uniformity, quality, cost, and yield of a product — such as temperature, pressure, liquid level, flow, pH, humidity, and speed.

Results

They eliminated variations in processing that caused inefficiency . . . cut down rejections and waste . . . insured product uniformity . . . helped cut processing time as much as from 10 days to less than 30 minutes. And these systems quickly paid for themselves.

A Revolutionary Concept

They brought automatic plant operation to startling reality and were hailed at the time as a fundamentally new development — which would in time revolutionize manufacturing.

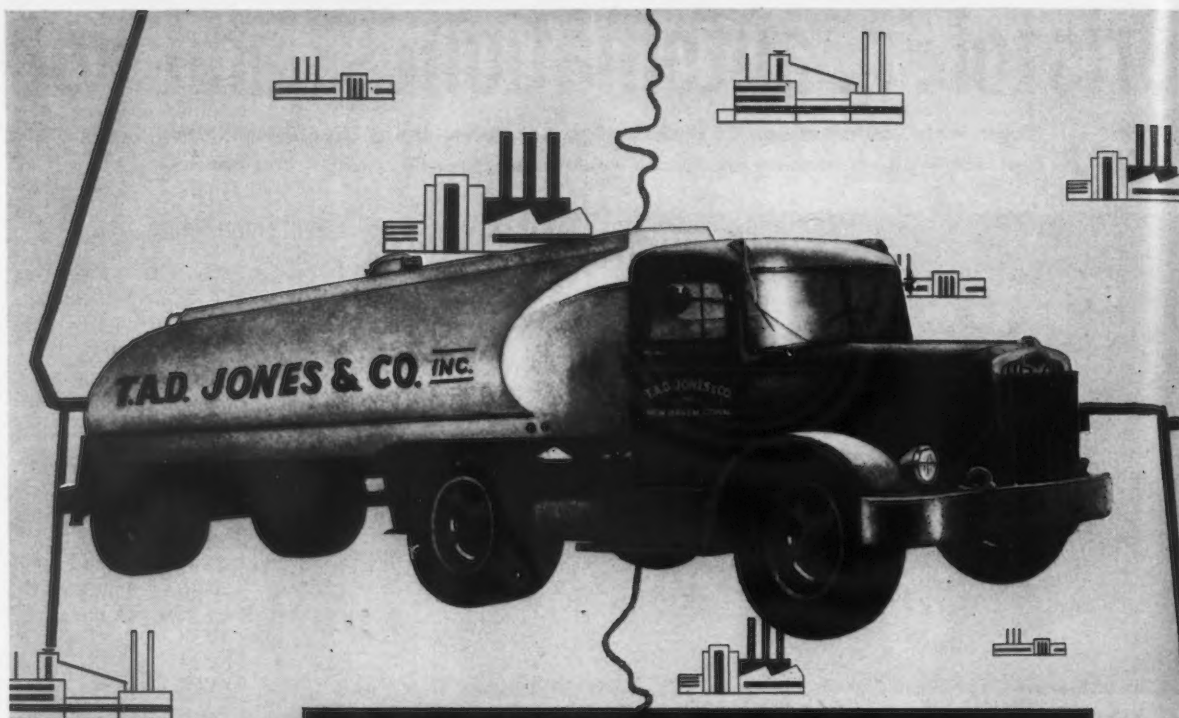
Today, Bristol Coordinated Control Systems are used in the chemical, oil refining, rubber, tobacco, textile, steel, metal working, food, paper, and automotive industries, as well as many others. They are so completely automatic that is is only necessary to push a button to start up, another to shut down.

Have you an automation problem?

Our application engineers and nationwide group of field engineers would like an opportunity to work with your technical staff on any problems of automation for which Bristol Controlling and Recording Equipment and Bristol Coordinated Control Systems appear to be the solution. The Bristol Company, 163 Bristol Road, Waterbury 20, Conn.

53A

WHAT'S NEWS AT BRISTOL . . . WHAT'S NEWS AT BRISTOL . . .



ALL OVER THE MAP!

For thirty years, T.A.D. Jones delivery-trucks have been rolling over the highways of Connecticut and Massachusetts, bringing a prompt and dependable fuel-service to the tanks and bunkers of southern New England's industry. While not so conspicuously marked as to source, the volume of our barge- and rail-deliveries has been equally important to this area.

After nearly a generation of such usefulness, T.A.D. JONES & COMPANY is naturally equipped to maintain and improve its name for serviceability. Today our bulk storage of Buckler "C" Fuel Oil, Bituminous and Anthracite is among the most extensive in New England, like our facilities for delivery. ... And they are all as handy to you as your telephone!

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On Keeping Our Heads — Above Water

By J. HOWARD DONAHUE,* *Secretary and General Sales Manager*
Pioneer Steel Ball Company, Inc., Unionville

IF war-time tactics can be credited to raging torrents, divide and conquer was the strategy adopted by the untamed waters of the August floods. But towns and villages were not the only objects divided, if not conquered. As the rivers subsided, it was soon apparent that the people themselves were identified with one of two groups.

First, there were those whose idea of a solution was to look for George—reputed to be the fellow to let do things. The foremost concern of others—and fortunately this was by far the larger group—was to see to it that they had an ample supply of bootstraps. For after an initial survey of their damages, these latter realized that whether or not temporary assistance might be forthcoming, in the long run their ability to rise above the situation would be determined by the effort they applied to lifting themselves by their own bootstraps.

The George-seekers are not to be blamed. Their reaction was the result of an unfortunate habit of thinking that continually substitutes dependence for self-reliance. Under such circumstances, resourcefulness was a characteristic that could not be applied until re-awakened. Hence it is to the everlasting credit of the American fighting spirit that, after a few days, the example set by the rugged individualists who were determined to help themselves, so inspired the George-seekers that many of them pitched in to help work out their own problems.

To complete the classification, mention must be made of still a third category of people. These were the ones who suffered no damage. Not permitted in the flooded areas, they had little or no conception of the devastation. Neither graphic newspaper accounts, nor dramatic television pictures, nor persuasive radio appeals, could possibly register on the minds of those not on the scenes of disaster the acute losses and physical suffering of nearby fellow Americans.

This third group mistakenly initiated the battle cry of "A challenge! This is something to meet and master. You'll come back bigger and better than ever." Perhaps they were sincere. Or it may be they said it because they thought it was the thing to say. But to the flood victims whose families were missing, whose homes had disappeared, whose businesses were destroyed, the disaster was anything but a challenge. To those people it was and still is a chore—a chore of sodden, grubbing drudgery.

Hours of exhausting labor fail to bring forth anything approaching recognizable results that could be expected from such efforts. Day after day, eight hours of cleaning

up operations in mill, store, or factory must be repeated during another eight hours of evening and night attempts to clean and repair homes and restore furniture as the first step toward recapturing some semblance of livability.

Those unaffected by the flood do not yet realize the terrific extent of individual and industrial losses. This lack of comprehension is not surprising, because the full force of the catastrophe has not yet fully registered even on the minds of those who suffered losses. These people are expending their energies, using up almost the final reserves of their strength, in a plodding, endless routine of dig, scrub, repair. Physical exhaustion has dulled the minds of many until they are at a point at which they are just too tired to think. And this is probably Nature's way of quietly rehabilitating minds and bodies.

As the process continues you find a question beginning to take shape here and there. "Why did this awful thing have to happen to me?" There is seldom any resentment behind these questions. The state of mind is best described as one of bewilderment. People are honestly seeking answers, and in many instances looking into their past lives for a guide to those answers. It is not uncommon to hear a remark such as, "Believe me, I'm going to be more generous toward others in the future. People I didn't even know have given me gifts of food, clothes, and money."

Projected into the future, this awareness of the sufferings of our fellow man, this willingness to contribute to his needs in time of distress, could be a blessing stemming from a catastrophe. True enough, people have been generous in the past but the giving has often been perfunctory with no realization of the conditions to be corrected.

In the weeks to come, as progress in restoring homes and factories takes shape and can be measured, it is more than likely that the "challenge" as seen by those unaffected by the flood may also be recognized by the victims. So the outside viewpoint may have been the right one after all. It is certain to be adopted when the first traces of encouraging results can be detected after almost endless effort. A sound job of structural reinforcement, the restoration of familiar things, perhaps assistance in relocating—such accomplishments suggest a future that offers a hope of better things to come.

The challenge to the industrialist who must revamp or rebuild is to achieve increased efficiency in plant layout, and increased efficiency in equipment with the resulting increase of efficiency in utilizing manpower.

The community is also faced with a challenge and an opportunity. Rebuilding is often deterred by the thought of long drawn out condemnation proceedings. Now, many communities have no choice but to rebuild—better—or become ghost towns.

On the regional level, in conjunction with the Federal Government, there is a challenge to fast action—action that will make the threat of floods a memory rather than a menace.

* Mr. Donahue, writer of this month's guest editorial, has had some twenty years experience with Connecticut manufacturers in the field of sales management. He moved to Houston, Texas in 1945, to spend a year and a half as circulation manager for Gulf Publishing Company's oil trade journals. He returned to join Pioneer in 1947, shortly after its inception. On August 2 of this year, he and three associates under the leadership of Nicholas Martinelli, president, acquired Pioneer which had been operating as a subsidiary of Pittsburgh Steel Company. Less than three weeks later flood waters caused heavy damage to Pioneer's buildings and equipment. Hence Mr. Donahue speaks from first-hand experience.



THE ROSER TANNERY IN GLASTONBURY

The Roser Tradition In Tanning

The year was 1695.

In Strasbourg, France, Kasper Roser placed the last of his possessions on the wagon, called for his wife and children to come out of the silent house, and with his family safely bedded down for the night on thick quilts, drove out of the dark city.

Being a proud man, he believed that a man should worship God according to his own dictates. This was not allowed in Strasbourg; religious freedom had not yet been won.

The authorities had given him a choice: submit to the doctrines as specified by the civil authorities or leave the city.

Kasper Roser had made up his mind. He departed from Strasbourg, leaving more than persecution behind him. He had forsaken a tannery for religious freedom. He had worked many years to build the tannery, and the quality of the leather that had come out of his shop was known far and wide.

However, the skill and knowledge he had gained in Strasbourg were soon to be applied elsewhere. Kasper settled in Stuttgart, Germany. He built another tannery and soon "Roser Leather" was once more finding its way into the market places of Europe.

Herman Roser

In 1883, Herman Roser, youngest of seven sons, and seven generations removed from Kasper, decided there was no important opportunity for him in his father's tannery, for several brothers already took precedence over him. Herman reasoned there would be greater opportunity for him in the new world, America; he made the all-important decision to emigrate.

Before leaving for America, however, he learned all that his father

could teach him in the family tannery. Then he traveled to Switzerland, France, and Belgium and studied the tanning methods of those countries, adding to his knowledge by working as a journeyman.

Herman learned what the old world knew about tanning so that he could transport this knowledge to the new world. In 1884, he departed from Europe bound for the western hemisphere.

In America, Herman went directly to one of the great tanning centers, Philadelphia. There, his knowledge of tanning obtained immediate employment for him. Soon after he moved to New York. Again it was not difficult for him to find work in a tannery, for the demands for leather were growing with the ever-expanding frontiers of a growing nation. There was a need for such leather products as harness straps, saddles, belts, boots, and a host of other necessities. In addition, there were new styles in leather goods, set by the folk of the great cities of New York, Boston, and Philadelphia. These refinements in style, plus the vigorous growth of the nation, kept tanneries in the East busy.

Herman Roser worked hard and saved his money. He was grateful for the opportunity to work, but he was determined to have his own tannery. It would not be just any tannery, but one that had the three basic requirements for tanning the finest pigskin leather. (Herman had already decided that he could do his best work with pigskin. Properly tanned, pigskin was the most durable and the handsomest of all leathers.)

Such a tannery would require first, oak bark to supply tannin; next a goodly flowage of pure, soft water; and finally, a ready source of raw skins.



ROSER TANNERY as it appeared in 1886 at the time of purchase from Hubbard & Broadhead.

These prerequisites, of course, reduced the number of possible locations. However, one day Herman heard of a tannery for sale in Glastonbury, Connecticut.

Losing no time, he hastened to Glastonbury, a busy Yankee community which had developed into a manufacturing center of some importance. There he talked with Isaac Broadhead, the surviving partner of the company, Hubbard & Broadhead. (The tannery had been in operation since 1854. Thus it is now in its 101st year of operation.)

Extremely pleased with the possibilities at hand, Herman Roser purchased the tannery on April 1, 1886.

The Tannery

The first Roser in Glastonbury was proud of the tannery. Its strong, brick walls would last indefinitely; and those buildings of frame had been constructed of hand hewn oak and chestnut by the skillful Yankees of Glastonbury. There was plenty of water for driving the horizontal water wheel which produced the power for grinding oak bark. Moreover, the water was pure—just right for the tanning process. The bark grinder was the only machine then used in the tannery.

Important, too, was the plentiful growth of white and black oak timber in Glastonbury and the surrounding towns.

Much of this timber was used to build coastwise and Connecticut River ships in yards located at Glastonbury and other river towns. But a valuable by-product of the timber was the bark which contained great quantities of tannin, the substance needed for vegetable tanning.

Just as important was the ready supply of properly "flayed" raw pigskins. Pigs were a most important factor in the self-sustaining economy of earlier New England. Almost every farmer raised one or more. During the early winter, itinerant butchers traveled from farm to farm with their razor sharp knives and huge boiling kettles. Butchering day was an event of great consequence. It meant fresh pork, tasty bacons and hams to be smoked over hickory chips, and crisp "scraps" which remained after the lard had been "tried out" from the fat. It also meant extra cash in the butcher's pocket and skins for Herman Roser. One of the butcher's jobs was to flay the hide, a skillful operation by which the skin was separated from the flesh by care-



AN "ACCORDIAN" coin purse of Roser pigskin made about 1880 by C. F. Rumpp & Sons, Inc., well-known leather goods manufacturers of Philadelphia. Purse was used continuously for over 30 years.

ful cutting. In return for this work, he took the skin in payment.

So it was that when Herman acquired the original Hubbard & Broadhead tannery, he gained, too, the rich natural resources of the environment. He could now set about to produce the finest pigskin leather in America.

Herman Roser worked hard supervising every process in the tannery and often performed the individual jobs himself. He spent as many as fourteen hours a day in the tannery, six days a week, and took care of business correspondence at his home in the evening. On Sunday he went to church in the family tradition.

He made progress, and after two years decided that he could support a wife and family. So he went back to Germany, married Maria Veil and brought her to Glastonbury. Maria Veil was the daughter of Johannes Veil



CARRYING ON in the tradition established by their father, John (right) and Martin Roser frequently examine finished pigskins at the packing table just prior to shipment.

HERMAN ROSER, 1859-1947, founder, Herman Roser & Sons, Inc.





THE DECORATIVE as well as utilitarian characteristics of Roser pigskin are demonstrated in this photograph which displays a wide variety of personal and household items.



QUALITIES of Roser pigskin which create an extensive demand in the "personal" leather goods field are its ability to acquire a beautiful patina, its distinctive "creek", and its pleasant aroma.

of Schorndorf who also came of a long line of tanners.

Herman Roser left no stone unturned to produce America's choicest pigskin leather. Little wonder that with the arrival of the twentieth century, the name "Roser" was synonymous with "quality" wherever fine pigskin was used.

The Early 1900's

With the turn of the new century, America had become a strong, vibrant nation. The days of struggle and vast internal adjustments were gone. The west was no longer uncharted. Railroads had pushed into every corner of the nation. The telegraph, and the new instrument, the telephone, spanned the continent in seconds.

In Glastonbury, Herman Roser was aware of the transition. Not only had he kept abreast of the changing times through continual reading and study, but the highway that ran by his tannery was one of the main arteries of Connecticut, joining the capital city, Hartford, and the seaport of New London. It was heavily traveled by the growing numbers of salesmen who carried America's largest industrial news to his door.

However, it takes longer than overnight to change the operations of a tradition. Yet, there were changes he could make that would ease the burden of some jobs and improve the operation of the tannery.

Herman Roser had risen before dawn for years during the winter months to light the stoves scattered

throughout the tannery. Now, he had a steam boiler installed to provide central heating and supply steam for process work. Later, this boiler made possible the installation of a steam engine to supplement power from the water turbine.

Paddle wheels were put in the tanning vats; these helped produce more thorough and uniform tanning. Revolving drums were installed to wash skins better, quicker. By-and-large, however, quality tanning was still a hand process.

Until such time when machines could process leather better, he would not compromise quality for quantity. But Herman knew that someday, and not too far in the future, machines would surpass hand methods and eventually produce even finer pigskin leather. He would be ready for that day when it arrived.

Outside other events were taking place, and these affected the operation of the tannery.

There was the matter of oak bark, for instance. When the supply of oak bark had been plentiful in the Glastonbury area, Herman Roser had procured it easily from teamsters who brought it in by oxcart. Now, locally the supply was dwindling and large vans hauled the bark from more remote areas, where oak timber was still available.

There was change, too, in the source of raw pigskins. Connecticut farmers, once Herman Roser's chief suppliers, raised fewer pigs. As a result, the skill required to properly flay

hide disappeared; and those relatively few hides that were flayed bore, too often, the knife marks of hasty and unskilled hands. Herman refused to tan such second-rate skins.

Forced by dwindling supplies of first quality skins, it became necessary to go farther afield. But the situation was no better in other parts of the country. (The packers seldom produced whole pigskins, as it was easier to leave the skin on the ham, bacon and other pork products.) So Herman Roser turned to Europe where the art of flaying continued and where pigs were raised not only for their meat but also for their skin. They received good care, so that the skin did not become damaged by scars or by skin diseases.

A revolution in the pigskin tanning industry, itself never large, was slowly taking place throughout the nation. One of the outstanding characteristics of pigskin is its natural and distinctive grain. To preserve this fine grain requires endless patience and great skill. With the increased demand for leather goods, time became an important factor and many tanneries did not possess the time, or the patience and skill required to produce truly fine pigskin leather. For this reason, and faced by the scarcity of raw skins, more and more tanneries deserted pigskin for other kinds of leather. Today it is said that Herman Roser & Sons, Inc., is the only tannery in America, possibly in the world, devoted exclusively to the tanning of pigskins.

Then, in 1908, John, Herman Roser's oldest son, joined him in the

tannery. The young man was no stranger to tanning. When a youngster, he had often helped his father with some of the simple chores in the shop; then, after completion of studies in the Glastonbury schools his father had sent him abroad to study at the School of Tanning in Freiberg, Germany. Having completed his formal education, John toured Germany and then England, working as a journeyman in some of the important tanneries of those countries.

When he entered his father's shop John had acquired considerable experience. Four years later, in 1912, Herman Roser recognized his son's talents and gave proper notice to all that henceforth the tannery was to be known as "Herman Roser & Son."

The World War I Period

These were years of upheaval and fast-moving events. Industry grew and with it many new uses for Herman Roser's fine pigskin leather. One of these new needs was seat covering and upholstery for automobiles. It is significant that Roser pigskin was used in the higher priced automobiles, especially the Pierce-Arrow, during the earlier years of automobilizing.

Events overseas were soon to affect America. World War I shattered the peace of the world, but not until 1917 did the tidal wave of that war hit the small and remote town of Glastonbury.

Almost overnight, it seemed then, the young men of Glastonbury disappeared into America's growing armed forces. Among them were Herman Roser's two oldest sons, John and Martin.

While the two young Rosers served their country (Martin took part in the fighting in France throughout 1918 and John served in the army in this country during the closing months of the war) Herman continued to attend the growing operations of the tannery.

It was not an easy task. Military and civilian needs multiplied the demand for fine pigskin leather. He worked long hours; yet work was not enough during the war days.

During spare time, Herman Roser bought trees and had them planted throughout the town. With his own hands he set out many of them on the town "Green," hoping that through this activity some semblance of the spirit and calm of Glastonbury could be maintained and preserved for years to come.

The War ended. John and Martin returned. Now, it was time for Martin to enter the tannery. After he had studied abroad and completed his education at business schools in Hartford and at the University of Connecticut, he joined his father and brother in the tannery.

Desiring to have his sons participate in the management, Herman Roser incorporated the family tannery in 1918. The young men were ready to initiate some of the changes in industrial methods which had largely developed during and since the war. New machines, new methods—even new kinds of dyes and chemicals—began to appear.

Herman Roser was willing to let the young men lead. Gradually, the interior of the tannery began to take on a different character: a new kind of vat; new machines to remove excess fat from skins without damaging them; experiments, trial and error involving the use of new tanning agents and chemicals; a new wonder machine that could literally slice skins so that uniform thickness of leather could be guaranteed; new methods to soften skins and yet make them stronger—these and many changes were made within the old tannery. One addition

was quite visible to all who passed by the shop on the turnpike that led from Hartford to New London—a large four-story brick building now adjoined the original tannery buildings.

Pigskin Tanning

Pigskin tanning in the main is not unlike any other type of tanning. But the unusual nature of the skin itself distinguishes it from all others. Most skins have two distinct layers, the grain (outer) and the corium (inner), whereas pigskin has an interwoven network of fibers in the skin, with an unusual amount of fat distributed throughout the interstices. Riding the skin of this excess fat is the most formidable problem in pigskin tanning.

Herman Roser & Sons, Inc. have developed special processes to solve this and other problems. Skins are fed through a "fleshing" machine, after they have been soaked to remove dirt and foreign matter, and before the bristles have been removed. The fleshing machine cuts off the surface fat. In the past, removing the fat was a long and arduous manual task. The new machine process is fast, accurate and highly efficient. After removal of the fat, the skin is ready for the unhairing operation.

(Continued on page 37)

EXCEPTIONAL DURABILITY, combined with distinctive beauty, make Roser pigskin a preferred leather for luggage and carrying cases. It is also popular for both men's and women's shoes.





THE PRESENT Bridgeport plant of The Producto Machine Company occupies five acres. An additional adjoining three and one-half acres have recently been purchased by the company for expansion purposes.

Producto Builds National Die Set Business Through Progressive Expansion Program

"OUR business is manufacturing die sets, diemaker's accessories and special machine tools. Competition is keen in this field. After we have done everything possible in the direction of quality and price, plus a complete line of equipment, there

is only one major selling point left. That value is customer service. This is an extremely important consideration to users of our products.

"For our own benefit, to hold down costs and avoid waste, as well as to provide faster deliveries and answers to inquiries for our customers, we decided to reorganize our production control system. Basically, the program consists of using a multi-station inter-office communication system for reporting job time and status, plus the International Business Machine punched-card system for recording, computing and tabulating the information."

Thus begins a detailed article in a recent issue of one of the leading metalworking journals by David W. Myers, controller of The Producto Machine Company, of Bridgeport.

This unique "talk-box and tabulator" system is typical of the progressive expansion going on at Producto during 1955. More than a million dollars has been spent in the past two years by this 300-man company to improve practically every phase of its operations—from the making of semi-steel for Producto die sets to the final distribution of its products.

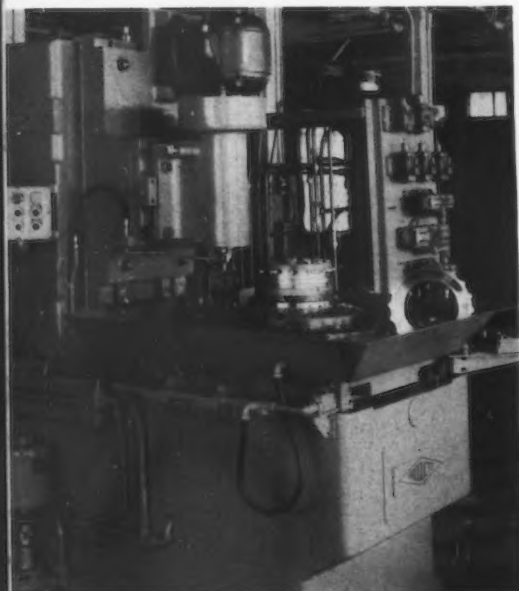
The entire modernization and expansion program has been aimed at product upgrading. For example, an extensive replacement program in the



NEWMAN M. MARSILIUS

Producto foundry has made possible faster, lower-cost casting of higher-quality semi-steel die sets. A modern cupola installation includes a mechanical charger which can be loaded from the outside materials yard with the proper amounts of selected raw materials to permit a more accurate control of the metals cast in the foundry.

Additional foundry innovations include a continuous-pour ladle with continuous slag removal provided, modern Wheelabrator cleaning machines to



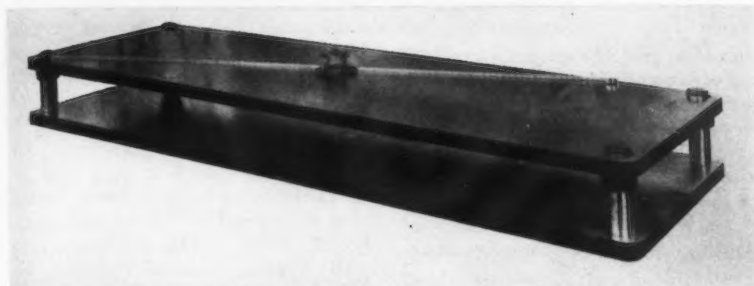
THIS PRODUCTO Index Mill-Matic machine is now being used to produce jet aircraft engine parts. It has enabled the manufacturer to double production.



PHILIP R. MARSILIUS



THIS 12,000 POUND semi-steel die set is the result of Producto's complete "under-one-roof" service—pattern, casting and machining.



THIS PHOTOGRAPH dramatizes the wide range of sizes and shapes which the die set manufacturer is regularly called upon to supply.

improve casting appearance, and new ventilating fans to completely replace the air in the foundry every five minutes. A new dust collector-washer system removes 90 per cent of all solid matter and was effected in cooperation with the program of the special committee on combustion improvement of the Bridgeport Manufacturers Association.

Simultaneously, many major machine tools have been added to the Producto production lines. These include precision jig borers, universal grinders, a Bullard Cut-Master, flame-cutting machines, honing machines, thread millers, welders and Blanchard Grinders.

According to Newman M. Marsilius, Jr., company president, the new control system, together with the major improvements in the foundry and machine shop, has now made it possible for Producto to guarantee a maximum of three days from order to shipment on "catalog" die sets. In many instances, one-day service is maintained.

This speed-up of die set production

and delivery should prove very beneficial to the stamping industry. Die sets, which are used to hold dies in stamping presses, must be obtained quickly by tool-and-die shops, which regularly re-

ceive "rush" orders to build dies for their customers. When you realize that all the possible combinations of components and materials in every size range add up to approximately *two million* different standard or "catalog" die sets—not to mention special sets built to customer specifications—you can understand the complex production, inventory and distribution problems encountered in the die set industry.

Producto's production control system revealed many management advantages that might well suggest cost-saving procedures to manufacturers in other fields. In addition to controlling orders accurately in the shop and cutting delivery time in half, the system

(Continued on page 42)



PRODUCTION CONTROL CENTER, heart of The Producto Machine Company's new system, is equipped with two master communicators which are tied in with 20 remote call-in stations, an IBM card writing and punching machine; a time-stamping machine, and files. Status of any job is available within a few minutes.



AN "ISLAND" created by the flood waters of the Quinebaug River in the heart of Putnam. At upper left is the remains of the gutted Metal Sellers Corporation facing the Belding-Heminway plant across the river. (Hartford Times Photo)

The Flood

By L. M. BINGHAM

Editors Note: This article merely attempts to give the reader an overall picture of rapid-fire happenings before, during and since the flood minus most of the details. It was written without benefit of first-hand observations but rather from the first-hand observations of newsreporters, manufacturers and MAC field staff members. A book-length story could be written about the heroics and round-the-clock labors of telephone and power company employees and the huge losses taken by their companies, not to mention many more that could be written about the deeds of others who went beyond the call of duty to give without thought of reward. Story written September 8, 1955.

FICKLE Diane, moving erratically from her tropical birthplace, fortunately changed her course and "blew out" her fury outside of Connecticut. But her influence as a destroyer was not to be denied. Her fury

elsewhere had created low pressure areas over Connecticut and portions of Pennsylvania, New York, New Jersey, Massachusetts and Connecticut that brought heavy intermittent rain on Thursday, August 18.

Although rain forecasts for the week end of August 20 and 21 had dampened the hopes of many rain-soaked workers as they sloshed homeward Thursday night, no one, not even the weathermen, knew the holocaust of destruction that was destined to begin its visit in the early morning hours of Friday, August 19. Even flash floods caused by yesterday's trickling streams, swollen by Thursday's rainfall that had covered some roads, washed out others along with small bridges and filled many basements, failed to forecast the catastrophe that was about to strike.

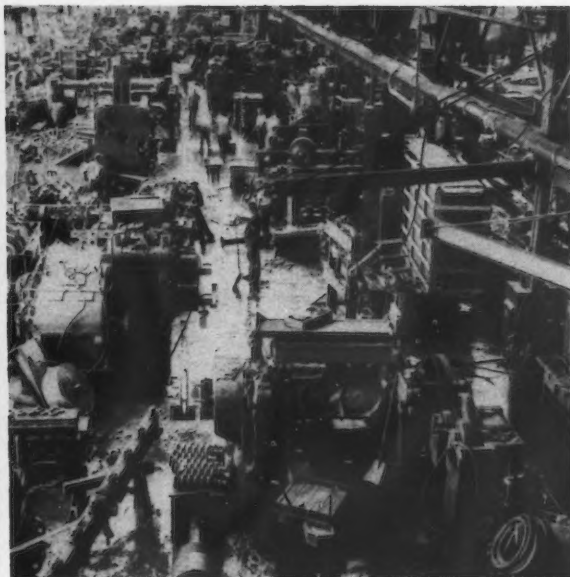
Like other soggy citizens who had felt and seen the rain pelting them, stalling cars and rushing over gutters, Governor Ribicoff was not aware of the seriousness of the situation until Mayor William Carroll of Torrington called him shortly after 1:00 A.M. Friday morning urging him to call out the National Guard in that area to aid in removing families whose homes were threatened by the rapidly rising waters. After calling and conferring with Adjutant General Frederick G. Reincke he issued an order calling out the National Guard and started for Torrington. Finding one road after another blocked by flood waters, he gave



GOVERNOR'S Emergency Planning Committee, seated, left to right, Sherman L. Knapp, chairman; Governor Ribicoff and Rep. Norman K. Parsells; standing, from left, Senator Patrick J. Ward, Mayor John N. Dempsey of Putnam, Robert P. Lee, Lester E. Shippee, Dean W. B. Young, Norris W. Ford, Lucius S. Rowe, Mitchell Sviridoff, Senator Joseph S. Longo, John A. Coe, Jr., Mrs. Robert G. Edgar, Rep. W. Sheffield Cowles, Harold V. Bossa, Joseph M. Rourke, Robert A. Wall, Joseph M. Loughlin. Messrs. Lee, Wall and Loughlin and Mrs. Edgar in this photo are not committee members. Members absent were Frazer B. Wilde, Ostrom Enders, William Sheasby, Bernard Kranowitz and Mrs. John Briscoe.



ANSONIA Erecting Shop of Farrel-Birmingham Co. about two feet under highest point of the flood.



THE ERECTING SHOP two days later with clean-up work well under way.

up the effort in Burlington four hours later to return to the State Police barracks via a milk truck which he reached by wading through knee deep water, and a police cruiser.

Acting quickly, the Governor set up emergency headquarters at the State Armory with State Police Commissioner John C. Kelly, General Reincke and Civilian Defense Director Leo J. Mulcahy. As reports from Unionville, Farmington, Winsted, Torrington, Thomaston, Waterbury, Naugatuck and other valley towns, and from Putnam and other eastern Connecticut

towns came in to his headquarters the Governor quickly recalled troops in camps outside the state, ordered others to mobilize to aid other stricken areas, and sought aid from the Red Cross, all branches of the Armed Services, federal relief agencies and even from President Eisenhower, then vacationing in Colorado. Then he took to the air via helicopter, dropping down into every flood afflicted community to give encouragement to the people and to discover emergency needs of the towns and their flooded industries. He gave orders that, in many instances, met an



SOME 58 helicopters and their crews from Kaman and Sikorsky Aircraft, and from all branches of the Armed Services saved hundreds of lives, shuttled people from one isolated section to another and brought in necessary medical and food supplies during and after the high point of the flood. (Hartford Times Photo)



DEBRIS outside of what is believed to be the American Brass plant in Torrington. (Identification not guaranteed by the Hartford Times)

emergency need in a surprisingly short time. He made his headquarters at the State Armory until August 29 when he returned to the State Capitol.

Neither time nor space is available in this brief highlight story to enumerate all the rivers and streams that wrought havoc to the farmlands, houses, industries, business establishments, roads, streets and bridges, nor to record the countless heroics performed by policemen, firemen, national guardsmen, helicopter pilots and crews and just plain citizens who wanted to help. These have been recorded in news stories that would fill a large volume. Instead we shall only



SCENE at U. S. Rubber Footwear plant in Naugatuck during clean-up after the flood which took a toll of damage estimated at around \$10 million. (Hartford Times Photo)



A FEW of the Ensign-Bickford Company buildings in Simsbury during the flood at near-peak level. Damage to inventory and equipment was extremely heavy. (Hartford Times Photo)



WRECKAGE of Plume and Atwood's new plant at Thomaston, as seen after the flood waters of the Naugatuck had subsided. Offices were wrecked and the plant packed tightly with debris. (Hartford Courant Photo)

cover a few of the high spots of this greatest of all disasters that has visited Connecticut throughout history.

The Winsted-Torrington Area

Fed by overflowing small streams, the Mad River tumbled over its banks and began rising rapidly on the foundations of buildings on Winsted's mile-long Main Street in the early morning hours of Friday, April 19. Firemen and policemen alerted the sleeping inhabitants of the apartment and other houses along the Mad and Still Rivers. Many heeded and left quickly with few of their personal effects. Others refused. Many of these who refused to leave their homes were rescued by boats or helicopter, or managed to swim to safety, but many drowned, despite what could have been a successful rescue effort if they had not panicked. Many believe that it was the heavy overflow from Highland Lake spillways cascading down the steep hillside into Mad River that set up the Niagara-like rapids which tore great holes in some business buildings and factories, while sweeping others to their destruction.

Instead of a macadam Main Street, a gorge varying in depth from 5 to 15 feet, filled with large rocks, broken sidewalks, cars, silt and ruined buildings on the river's edge, were seen after the waters receded as grim reminders of the power of churning flood waters. Few industries in Winsted escaped the wrath of the flood waters, except the relatively few on higher ground.

At first it was thought that Winsted's industries were ruined, possibly beyond resources available for their reconstruction. But with back-breaking clean-up work, many of them were in various stages of operation within a few days to two weeks after the waters receded. Within two months it now appears likely that most factories will be in full operation, except possibly those who are not able to secure the necessary finances to place their plants in operation. The hardest hit plant was the Gilbert Clock Co. Despite the fighting spirit of business management and the cooperation of employees and citizens, it will take years to recoup the millions lost by small merchants and industries in the area.

Rampaging waters that had been rising to an alarming stage late Thursday, August 19, brought terror to many Torrington residents in the early morning hours as rumors of dam failures and possible gas tank explosions were

intensified by the sound of flood waters they could not see. At one time the city was divided into three separate islands. Hardest hit was the lower down-town business district, the American Brass, Hotchkiss Brothers, the Fitzgerald Mfg. Co. and the Torrington Manufacturing Co.

New Hartford, Collinsville and Unionville

Swollen by smaller streams, the Farmington River swept through New Hartford causing heavy damage to the Underwood and Litchfield Manufacturing Company plants at New Hartford and wrecking houses and bridges in its path down the valley through Collinsville, Unionville, Farmington, Avon and Simsbury. Besides loss of many lives and homes, the Collins Co. was wrecked at Collinsville, the Pioneer Steel Ball Co. at Unionville, and the Ensign-Bickford Co. inundated and badly damaged in Simsbury. Many other plants in Unionville were either severely damaged or experienced heavy inventory or machine and equipment losses from flood waters.

The Naugatuck Valley

Rushing down the Naugatuck Valley with increasing force, the waters swept through the Plume and Atwood Company's new plant in Thomaston, wrecking the entire north end housing the offices and cafeteria and ruining inventory and equipment as well as destroying records. The whirling waters also destroyed the Plymouth bridge and continued to wreak havoc in varying degrees with plants, roads and business establishments downstream through Waterbury, Naugatuck, Ansonia, Derby and Seymour.

We can mention only a few of the more than 400 companies that suffered flood damage. Those mentioned as believed to be hardest hit may well have smaller losses or be able to sustain them better than others not mentioned. Only final rehabilitation cost figures and more detailed information as to company resources will determine what companies and communities will suffer most as the result of the August 1955 flood disaster.

Flood waters, besides making dozens of islands out of factory roofs, invaded the business section of Waterbury for the first time in its history. Scarcely an industry along the Naugatuck River in Waterbury, as well as others on tributary streams, escaped damage ranging from slight water damage to heavy de-



SMALL SECTION of Winsted's Main Street in foreground after flood waters subsided. New England Knitting Mills plant seen at lower left and Sterling Name Tape Company housed in brick building seen on right stood up well compared to many others along the Mad River. (Hartford Courant Photo)

struction of plants, inventory, equipment and records. Plants of the American Brass Company and Chase Brass & Copper Co. are believed to have sustained the heaviest damage in the Waterbury area.

Similar precedent-breaking high water marks were set in Naugatuck, Ansonia, Derby and Seymour, with both Naugatuck and Ansonia being split in two parts by loss of bridges joining the two sections of the town, while Seymour lost its drinking water supply. Greatest industrial losses by industries in the Naugatuck, Ansonia, Derby and Seymour areas were sustained by The United States Rubber Company in Naugatuck, Farrel-Birmingham plants in Ansonia and Derby, and Seymour Manufacturing Co. in Seymour. Although the dollar losses of many smaller industries in the area were slight by comparison with those sustained by larger companies, but in terms of tragedy to the owners, theirs was greater. Their plants were wiped out. Without substantial financial assistance a few may never rebuild again.

Putnam—Stafford Springs Area

The Quinebaug and French Rivers, not to be outdone by the Mad River of Winsted, the Farmington and the Naugatuck, literally tore Putnam to pieces, isolating the business district from other parts of the city by first destroying bridges and surrounding the remainder with its churning waters. The Metal Sellers Corporation, producers of magnesium, blew up at the height of the flood and burned, sending barrel after barrel of burning and exploding magnesium down the river to threaten destruction by fire of several factories and other buildings and homes. "It was a night of horror, worse than anything I have witnessed during bombings in World War II", one veteran declared. Firemen fought the blazing magnesium barrels from the roof of the Belding-Heminway plant all night to keep the plant from being ignited by the fiery fragments of exploding magnesium.

Practically all plants in Putnam proper suffered damage with the largest



BRIDGE FOUNDATIONS at Collinsville stand as mute testimony to fury of waters which took a heavy toll of the Collins Company factory buildings below the dam. (Hartford Times Photo)



SCENE of bridge across the Farmington River at Unionville, with plants owned by Myrtle Knitting Mills, but largely occupied by other small companies, in the background. Greatest damage to plants in this area is not evident in this photo. (Hartford Times Photo)



DESTRUCTION of Uncas and Putnam Finishing Companies by fire of unknown origin at Mechanicsville just below Putnam. Firemen were unable to fight fire effectively because of flood waters. (Hartford Times Photo)



FLOOD WATERS washing down Center Street in Stafford Springs causing heavy damage at Stafford Printers. (Hartford Times Photo)

losses registered at Putnam Woolen Co., Consolidated Bleaching Co., Belding-Heminway Co., The American Optical Co., Putnam branch, and the Metal Sellers Corporation. Down the river in Mechanicsville, the Uncas Printing and Finishing Co. and the Putnam Finishing Co. were destroyed by fire of unknown origin as firemen looked on helplessly, unable to fight the flames because of flood waters surrounding the plants.

For several days only a footbridge connected the two sections of Putnam and for a time the only entrance into the city was by a 35 mile circuitous route leading to the near-by town of Brooklyn.

The swollen Scantic River inundated the Somersville Manufacturing Co., a woolen mill in Somersville, and went on to inundate the downtown section of Stafford Springs with some eight feet of water and to bring heavy damage to at least three industries in the town, but far more to business establishments.

Other Areas Hit

Among the many other towns hit by the flood in varying degrees were Bristol, Norfolk, Canaan, Plainville, Terryville, Watertown, Washington, Middletown, Meriden, New Britain,

Hartford, Wethersfield, West Hartford, Granby, Bloomfield, Windsor, East Hartford, Windsor Locks, Warehouse Point, South Coventry, Willimantic and Danielson. Still other small towns and villages, too numerous to mention, that were bordered or divided by the smallest streams suffered damage in varying degrees, depending on the whimsey of the flood waters.

Although Hartford kept the Connecticut River away from its door by its 40 foot dikes, no dikes kept the Park River and its small tributaries from spilling its waters over wide areas to cause heavy damage to Underwood, Billings and Spencer Co. and numerous smaller plants along its winding banks before it entered the conduit at the edge of Bushnell Park. The greatest damage inflicted was upon many home, apartment and tenement dwellers located in the low lying areas in both Hartford and West Hartford.

Destruction and Heroics

The story was the same in varying notes wherever streams tried to carry off an unprecedented 13.87 inches of rain that fell in less than 48 hours. As one feature writer so aptly stated, "Friday (August 19) was the day of death and salvation. Military ducks

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America's Future Potential To Be Dramatized By "Americade"

Understanding how our economic system functions to bring to the average American the world's highest standard of living has been seen by businessmen for many years as the most important defense of our free way of life against the "isms". Among the many methods introduced to assist in developing this understanding among large segments of the population, "Americade" is the most dramatic. Eventually it will be displayed for short periods in every area in the country—possibly televised later to reach even larger audiences.

AN electronic exhibit depicting the future of America will be shown in Connecticut on October 18, 19 and 20 when Americade, a dramatic exposition of the country's progress and opportunity is presented by the National Association of Manufacturers in cooperation with the Manufacturers' Association of Connecticut and six other area organizations.

Assisting in the arrangements for Americade in the West Hartford Armory, Farmington Avenue, will be the Manufacturers' Associations of Connecticut and Hartford County, Chambers of Commerce of Hartford, New Britain, Bristol, West Hartford and East Hartford.

Dexter D. Coffin, President, C. H. Dexter & Sons, Windsor Locks, is chairman of the committee in charge. He will be assisted by a large group of industrialists and civic leaders.

Setting the stage for the Americade is a tall and impressive "theme pylon." Lights flash constantly through the symbol, accompanied by the sound of a beating heart. A voice message introduces the theme of the exhibit.

A keystone of the exposition is the "growth exhibit" which is geared to the Bureau of the Census' progression scale. The visitors may see the national population total at the moment they step up to the exhibit. Dials tick off births, deaths, immigrants and departures at intervals to bring about the estimated total population.

Because a great improvement in the American standard of living is likely to be in housing, the "home display" provides a look at, and into, the homes of the future. A "family of 1975" describes the wonders of that year by speaking back through telephone instruments, while a crystal ball shows a series of pictures of homes of the future.

With an estimated 7,000 new arrivals each day, there is added demand for food and clothing. The exhibit covers these needs adequately and dramatically by showing how the variety and quality of both will have attained new goals of perfection by 1975. Three dimensional packages of foods of the future will cascade from a conveyor belt on one side of the exhibit while the other will show products from textile factories moving into homes.

Greatly improved health standards promised by the future are depicted in

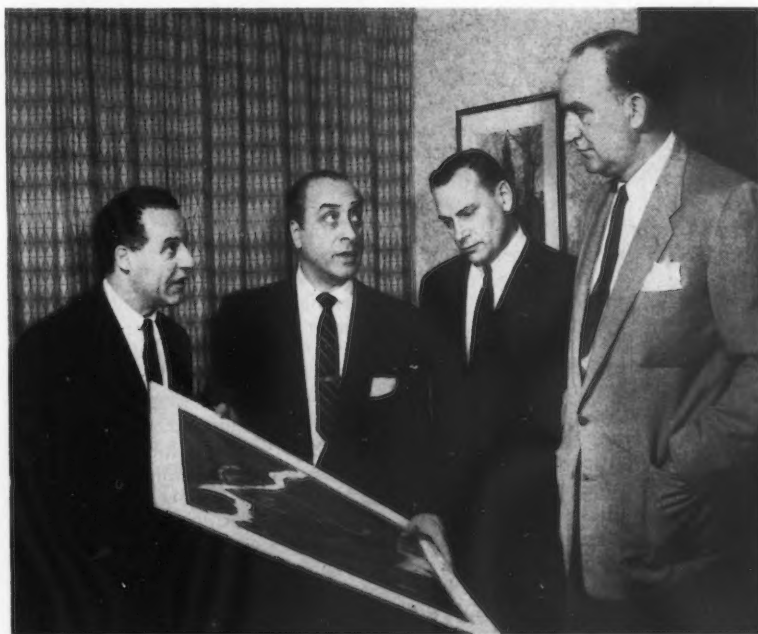
another unit that highlights the beneficial effects of new vaccines and wonder drugs. One section of the display provides a montage of medical research and laboratory scenes and another shows recreational activities of elderly people.

Religion and education come in for special treatment in the exhibit with the display unit showing the spiritual force that has played a vital role in America's development. In a similar vein it shows that continuance of cultural achievements will depend on the expansion of educational facilities.

Through a mechanical device the religious panel, with three-dimensional depth, is automatically reversed to bring the educational exhibit into view.

A major portion of the exhibit showing the transportation of the future is devoted to a simulated cock-

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ROBERT L. HUMPHREY (right) of the National Association of Manufacturers, director of the AMERICADE, discusses a sketch of the exposition with (l to r) Domenico Mortellito, manager, Design Section, Advertising Department, E. I. duPont de Nemours Co., Alfred F. Muscari, art director, New York Telephone Company and E. B. Blett, Department of Public Relations, Parade of Progress, General Motors Corp.

Market Research - What is it?

By A. D. CRONK, President

Connecticut Chapter, American Marketing Association

Getting the facts about people's wants, their extent, what they will pay to fill them and in what form, are important factors in building an accurate "business radar" that will point the way to profits—steer clear of profitless ventures in production. The author gives the facts, minus the jargon, about what this "business radar" we call market research really is and what it can accomplish.

THE words *marketing* and *market research* are showing up more and more in the articles you read in business magazines and a lot of your reading time can go to waste if you are not quite sure what these words mean. There is some confusion. Even a business sophisticate I know who once came to a meeting of the American Marketing Association under the impression that he was going to meet with a group of grocers.

Marketing is a broad term which includes all of the functions involved in transferring goods from producer to consumer. It includes such things as price policy, warehousing, advertising and the actual act of selling. Most of us in small or medium Connecticut industries won't be far wrong if we think of marketing as meaning "sales", since most of the functions covered by the word marketing are the responsibility of the Sales Manager or some other executive who oversees the distribution end of the business.

If for practical purposes you think of marketing as the same thing as sales, you can think of market research as sales research. Whenever you look up the credit rating of a new customer or whenever you look at your records to find out what one of your old customers has been buying from you, you are using a simple form of market research. There is no mystery about it. Market research follows a very basic and currently popular dictum—get the facts. What it does with the facts is the important thing. It picks out the essential ones, verifies them, puts them in order and presents them as a logical, useful tool for management.



A. D. CRONK

Market Research and New Products

Unless you are very lucky, higher operating costs and greater competition have lowered your profit margins on regular products. This has caused you and many other Connecticut manufacturers to plan new products which will bring in more sales and put you a step ahead of competition.

New product planning has its pitfalls. There is always a time when the Production Manager says "Tell us just what you want and how many you will sell and then we will tell you how much it will cost." To which the Sales Manager replies "Make us some samples and tell us what the costs will be and then we'll tell you how many we can sell."

This is a real dilemma. Many new products never get beyond this point.

If they do, it is usually because someone has taken a chance and answered one of the questions on the basis of hunch or personal opinion. If you have had much experience with the hunch method you know that it is unreliable and sometimes costly.

Market research is the only logical way to answer the question which the Production Manager put to the Sales Manager. Market researchers are trained to collect facts and appraise their findings objectively. They can find out whether a need for a new product exists, what the product should be like and how many people there are who might be expected to buy such a product. Since all of this is done on a systematic, scientific basis, it is far more reliable than the hunch or guesswork method.

All business is a calculated risk but those who make the most accurate calculations usually risk the least and profit the most. Your own new product program will be more successful if you use market research to get the facts.

Market Research and More Sales

When one of the button manufacturers in Waterbury first began to take regular inventories of work in process, one of the old time foremen walked up to the young fellow who was weighing a barrel of buttons and said "Do you think you're going to make more buttons by weighing them?" That was a long time ago and the exact answer to the question is unknown. The fact that inventory control is standard practice in every factory now is answer enough.

An old time sales manager might ask today's market research man if he thought that interviewing customers and studying census data and sales records would sell more goods. The answer to this question would be "Yes. Many manufacturing companies are

(Continued on page 46)

Europe's "New Look"

By WILLIAM W. EATON,* *Industrial Consultant*

Milford, Connecticut and New York, N. Y.

Mr. Eaton, a recent contributor to CI, was a member of a two man research team sponsored by the European Productivity Agency. The mission of this team, just recently returned from Europe, was to demonstrate the value of applied research to small and medium size manufacturing firms in various European countries outside The Iron Curtain.

ONE can't visit Europe extensively, as I recently did, without feeling that industry there has a "new look"—a new spirit of progress in methods and techniques, as well as many new and modern manufacturing facilities.

Generalizations are, of course, dangerous in a region with such wide variations in climate, people and resources. Nevertheless certain over-all trends can definitely be spotted.

During the past five years, there have been very strenuous efforts made by most European governments, individually and collectively, to improve economic conditions generally and to introduce many new techniques in production, management, merchandizing, and employee relations. These efforts, which have had the important backing of our foreign aid program, are definitely beginning to bear fruit. Take the case of Sgr. Cazzarolla, a young Italian industrialist of Verona, Italy.

This enterprising young man is managing a large paper products firm in which he has strong family ties. He is not only well educated, but has made it a point to lose no opportunity to acquaint himself with all the new management and production methods available. In this spirit he attended a couple of years ago a "Management Seminar", sponsored by the Italian National Committee on Productivity, as part of the foreign aid program mentioned above.

At these sessions, he was profoundly impressed by certain ideas and concepts about human relations in the United States, common to us, but new to him. He searched for ways to put these into practice in his own company. Finally, he hit upon a plan of action.

Some years previously, he had for health's sake spent considerable time



WILLIAM W. EATON

in a small mountain village nearby, a beautifully located, but wretchedly poor, community by the name of Boscochiesanuova (call it Bosco for short). The town is reported to have had, prior to 1918, a history of six hundred years of smuggling between Austria and Italy, on whose borders it lay. After the first World War, the Austrian border was moved back three hundred kilometers, and this quiet little village, with hay as its only meager source of income, was left to rot away in the hills, practically inaccessible.

Sgr. Cazzarolla was touched by the seeming helplessness of the inhabitants of Bosco to find a means of livelihood. Yet he noticed that they were inherently hard-working intelligent people. So he began calculations to see whether it would be feasible to establish a branch plant at such a location, including the cost of trucking in raw materials and trucking out finished products, over roads which would re-

quire a lot of attention. His survey indicated that such a branch operation could definitely be run in the black, so he proceeded forthwith.

While the plant was being constructed he was faced with the problem of selecting personnel, but he quickly disposed of this matter by asking the town fathers to select the thirty best qualified people. This they promptly did! The government also cooperated by improving the road.

Today, this plant has grown in size, the product output is increasing, and a new addition is planned. The town, of course, is overjoyed at having its total income multiplied by a factor of at least three. I personally visited the establishment, and it was obvious that this was not a case of overbearing paternalism by a rich boy. It was easy to see that these employees enjoyed their activity and the opportunity to work. And the most amazing feature of the operation is that a manager or foreman is really not needed most of the time, because these people are so thankful for their chance to earn a living that they work well without constant supervision. I couldn't help contrasting this with some of the labor situations we have in this country!

Or take another example, in an entirely different field, in Southern Italy. I visited a plant manufacturing the beautiful terazzo products which characterize Italy's buildings and houses. Here I found to my astonishment that in the past few years most of the strictly hand operations had been changed over to semi-automatic machines, with the owner of the plant doing the basic machine design. During the entire visit of several hours, there was no breakdown of any of the machines, which were quite ingeniously designed. Yet this owner was still not satisfied. He was continuing to design new machines for operations not yet made automatic.

These are the kinds of experience which made me sense the basic changes which are taking place in Europe to-

day. These examples illustrate particularly the development of new attitudes among young European industrialists, who are eager to grasp and put into practice new concepts and techniques. Such reactions are not so often observed among the older generation, who tend to resist change and are likely to be satisfied with the status quo.

Market Development

Another concept which is beginning to take hold in Europe is that of the possibilities of market development, through market research studies, better design, advertising, lower costs, etc. Heretofore the European notion of markets has been one of stability, and it has been difficult for European businessmen to grasp that the market for a given product can be increased materially by stimulating demand in various ways.

As a vital part of our foreign aid program, and also under the direct sponsorship of some of the national governments, United States experts on various phases of this field have visited Europe in the last two or three years to help spread the doctrines which have been so successful here. Progress is slow, but it is definitely true that a completely new interest has been developed in the study of markets.

One important factor which in Europe has worked against expanding markets is the average person's attitude toward borrowing money, and more particularly, the kind of borrowing we do in the United States to acquire our household goods and cars. Europeans have failed to understand this most important feature of our mass production system, namely, that the time payment plan is (if not carried to extremes) a desirable form of enforced saving, which enables Mr. Average Man to get for himself many useful products, for which he never would have had the will power to save up in advance. And furthermore, that the additional units sold in this way can be so numerous that they help materially to justify and pay for the type of high production tooling which in turn brings lower costs so that even more people can afford to buy.

The concept of this self-stimulating process is just beginning in Europe, but deferred payments are still the exception rather than the rule. Because to most Europeans, the matter of borrowing money is just a little bit immoral!

Productivity

In many leading European countries today, increased productivity on a broad scale is one of the most pressing problems, and one certainly gets the impression that this is really the first time that they have ever really approached this problem seriously. Again, a large share of credit for stimulating interest in this direction must go to our foreign aid program, working in conjunction with a European institution known as the European Productivity Agency (E. P. A.).

The joint efforts of these two groups have been so successful that a few words of description would be in order at this time.

The European Productivity Agency is an international body working within the framework of the Organization for European Economic Co-operation, composed of seventeen European countries, with the United States and Canada as Associate Members. The E.P.A. was set up in May, 1953, to promote the widest possible application of the latest technical know-how, managerial skills and sociological methods in European industry, commerce and agriculture. It operates on funds contributed by its European Member countries and the United States. It comprises a Productivity and Applied Research Committee, composed of representatives of the seventeen Member countries, an Advisory Board made up of fifteen leading personalities in business, labor and agriculture, and an international Secretariat headed by the Director of the Agency.

The E.P.A. is the focal point in the European productivity movement. It assists the Productivity Centers of the individual European countries in carrying out their national productivity programs; it constitutes a forum for the exchange of experience gained by those Centers; and it provides a central impetus for the over-all European productivity drive. E.P.A. dispatches international teams of businessmen, workers, farmers, technicians and scientists both to European countries and to the United States to study the latest industrial and agricultural methods. It makes available to Member countries the expert knowledge and the services of highly qualified consultants from Europe and the United States. It arranges training courses, international exhibitions and conventions; it undertakes or sponsors applied research and disseminates information in the form of films, reports and technical digests.

E.P.A. thus applies many methods toward a single goal; better goods for more people at lower cost.

In some countries, the productivity movement is carried even further by strictly national agencies, such as the National Productivity Committee in Italy, mentioned previously. For example, particular attention and great efforts have been lavished on areas of relatively low productivity, such as Southern Italy.

Miscellaneous Impressions

West Germany has probably made the most startling industrial recovery, particularly considering the completely devastated condition of the country just ten years ago. It has recently been listed as the third largest trading nation of the world, after the United States and Great Britain. The gross national product is over twice as great as at the previous peak, under Hitler. And one sees all kinds of convincing evidence of this new prosperity, in such things as heavy traffic and a vast construction boom, not to mention supermarkets and modern department stores with escalators. Although much of the credit for this recovery must go to our own foreign aid program, the inherent industriousness and determination of the German people have also been important factors.

A fantastic example of Germany's rapid recovery is the tremendous Volkswagen plant at Wolfsburg, and the steady stream of production of these remarkable small cars which has gushed from it. In the short space of seven years, this vast industrial establishment has been constructed from the ground up, and as of August 6, 1955 the one millionth car had been turned out. No other single European automobile company has turned out a total of one million cars since the beginning of the automobile industry! Volkswagen now claims to be the third largest automobile producer in the world, after only General Motors and Ford, and after traveling many thousands of miles in Europe I can easily believe it.

Thus we have the paradox that Germany, a defeated nation in ruins only ten short years ago, now rivals the United States and Great Britain in prosperity. This is certainly one of the most startling things to witness today in Europe. It is said to have prompted a delegate from a smaller and less prosperous nation to have remarked, in a recent international conference,

(Continued on page 50)



the answer...

... look to Miller for the answer to your fabricating problems, for in Miller Phosphor Bronze you get all the properties that are essential to economical production and product performance.

MILLER Phosphor Bronze in strips and rolls in widths from $\frac{3}{32}$ " has high tensile strength, lasting flexibility and uniformity. Backed by over 100 years of metal working experience. Close personal service—fast delivery through flexibility of operation.

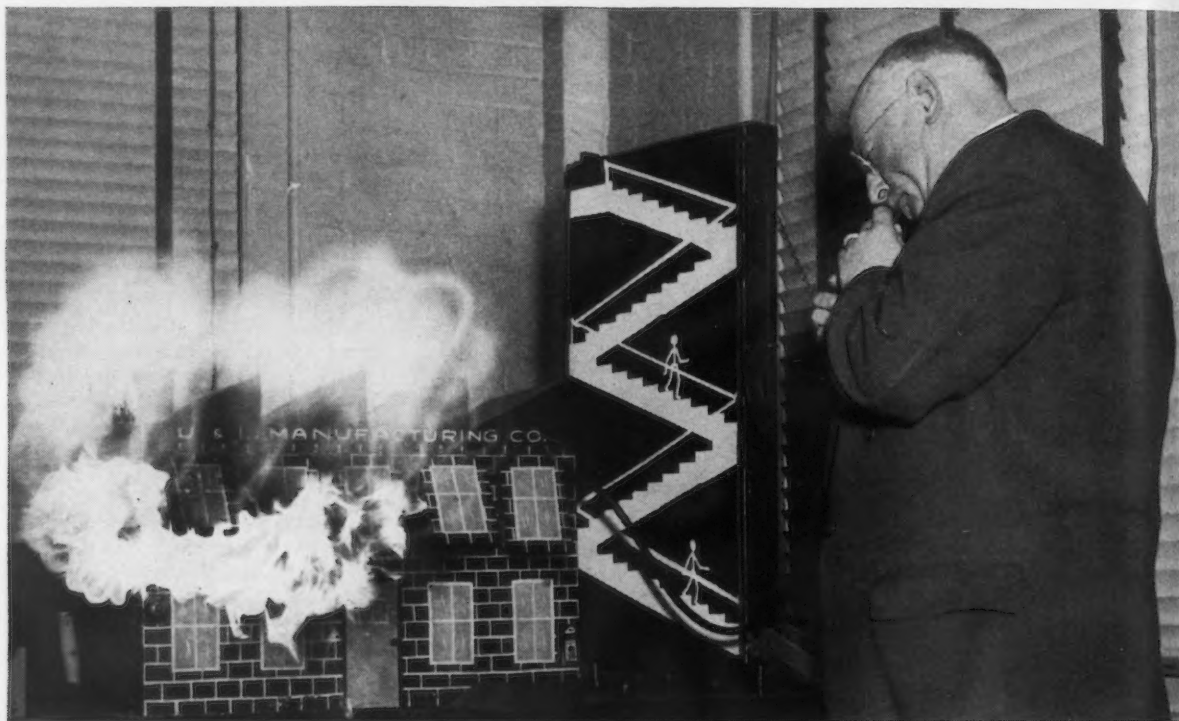
|| miller phosphor bronze

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SINCE 1844



LIBERTY MUTUAL

The Company that stands by you



2 MILLION PEOPLE HAVE WATCHED HIM SET BUILDINGS AFIRE

This former fire-chief puts on an extraordinary demonstration, "Fire in Miniature," a public service feature of Liberty Mutual's fire-prevention program. Neglect and carelessness cause 80% of all fires in the United States. Careful home owners who qualify as Liberty Mutual policyholders have always saved 25% on fire insurance.



"I WAS TERRIFIED! It was bad enough to crash my car into a barn, but when the farmer saw we were from another state, he wouldn't let me move the car before he got his damages. I called Liberty Mutual in a nearby city — they satisfied the farmer and we were soon on our way." When your car is insured with Liberty, you're not relying on one person; you've got a nation-wide team looking after you.



NO HANDS — GREAT HEART! A 7,200-volt electric shock cost Roger Robb his arms, but his epic courage and medical science sent him back to a good job, a happy family and a new life. Roger Robb is a star graduate of Liberty Mutual's Rehabilitation Center. When a worker is injured, Liberty's interest goes far beyond prompt compensation. Maximum rehabilitation is a great gain for everyone concerned.

WHY YOUR INTERESTS COME FIRST

You policyholders own the company. There are no stockholders. Liberty Mutual is run for your benefit. You are served through branches coast-to-coast and in Canada and Hawaii.

Liberal dividends are returned to policyholders. Policies are non-assessable. Liberty Mutual is the company that stands by you.

LIBERTY  MUTUAL
HOME OFFICE: BOSTON

LIBERTY MUTUAL INSURANCE COMPANY • LIBERTY MUTUAL FIRE INSURANCE COMPANY

NEWS FORUM

This department includes a digest of news and comment about Connecticut Industry of interest to management and others desiring to follow industrial news and trends.

HOWARD V. WILLIAMS has been appointed manager of the advertising department of the New Britain Machine Company, New Britain, it has been announced by Ralph S. Howe, company president.

Mr. Williams, a native of New York City, received his technical training at the New York University School of Engineering and the University of Georgia. After military service in World War II, he attended Wesleyan University, graduating with a BA degree in 1948. He was employed by The Travelers Insurance Company for the next four years. He joined the New Britain firm in 1953 and was assigned to the company's administrative training group. He was later assigned to the Sales Department.

★ ★ ★

A LOW-COST PORTABLE FILTER for small private swimming pools has recently been developed by The

Wallace, Davis Company of Hamden. Called the Diaclear portable filter, the device works on the diatomaceous earth principle. It is said to be light in weight and easy to operate. Mounted on two wheels, it is easily moved and can be disconnected at will and stored in a small space.

Two models are offered. The smaller model, the D-31, lists for \$249 and will service pools up to 9,000 gallons capacity. The model D-41 lists for \$299 and will service pools from 10,000 gallons to 15,000 gallons capacity.

The Diaclear may also be used as a straight pump and in 30 seconds may be converted into a powerful fire fighting unit. Illustrated literature with complete information is available from the company.

★ ★ ★

ACQUISITION of the controlling interest in the Econo Products Company, East Haddam, by Viking Instruments,

The Cover



THIS MONTH'S front cover is a *Hartford Times* photo of the flood waters in the Farmington River Valley looking north from Farmington that snuffed out the lives of many people, destroyed or damaged crop lands, roads, bridges, homes, business buildings and industrial plants in some eight towns before its cargo of water, silt and building wreckage reached the Connecticut River.

Inc., has been announced by Alan Davis, president of Viking. Econo manufactures hot water heating circulators, low water cut offs, and other hot water heating specialties, and in the future will be known as a division of Viking Instruments, Inc. However, there is to be no change in company name, personnel, or marketing policy at the present time.

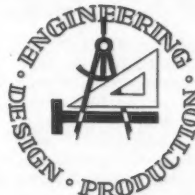
★ ★ ★

A NEW, highly compact punched tape control system called Binotrol, with wide practical applications for automatic operation of machine tools,

ANDERSON-NICHOLS

Company

CONSULTING ENGINEERS



ARCHITECTURAL - MECHANICAL - INDUSTRIAL - PROCESS - MANAGEMENT

Serving Connecticut Industry Over 30 Years

150 CAUSEWAY ST., BOSTON 14, MASS.

CONN. REPRESENTATIVE, E. W. NEWMAN, 68 HIGH ST. MILFORD



Your disinfectant doesn't HAVE to be disagreeable!

If you enjoy the fragrance and flavor of MINT, Dolge's new MINTOL multi-purpose "Air Refresher" will provide a pleasant, agreeable atmosphere when used for general disinfecting throughout your buildings. Never before has such a "nice", refreshing fragrance been combined with such a POWERFUL germicide (Coefficient 9 by official Food and Drug Administration Method).

Mopped or sprayed, MINTOL dilutes economically. NON-CORROSIVE to metal fixtures; will not harm fabrics or clothing; stores and handles beautifully.



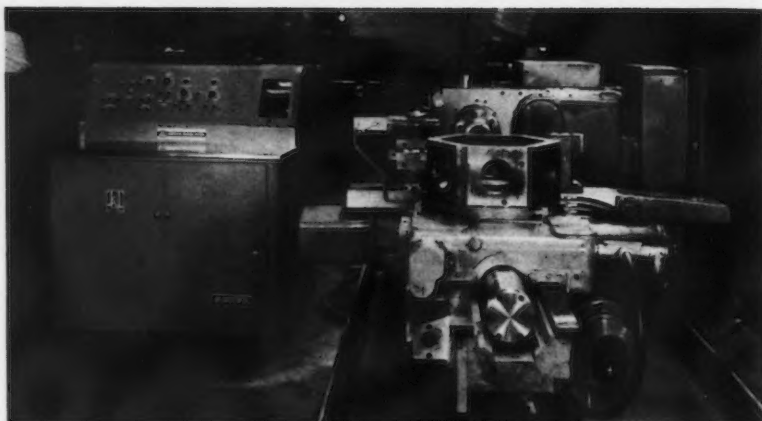
A Reliable Source for Reliable Mfg. Co.



General and executive offices at Reliable's new plant in Bloomfield were equipped by Barney's. Frank Cole, Reliable's president, states "We chose Barney's 16 years ago . . . and have continued to consult Barney's right along because they always give us the finest service, individualized attention, and a price that's right".



Office Furniture—Factory Equipment
450 Front St. Phone JA 2-6221



NEW BINOTROL SYSTEM (left) automatically controls Jones & Lamson Turret Lathe. The system was developed by Barnes Engineering Company, Stamford.

valves and other industrial equipment, has been announced by Barnes Engineering Company, Stamford.

According to Donald M. Frothingham, who developed Binotrol for Barnes, it differs from other control devices in several ways. Its simple computer system makes for compact size: the complete control console is no larger than an office desk. The operating principle of Binotrol is digital-to-analog—the reverse of most other systems. It contains few vacuum tubes, with circuitry composed mainly of telephone-type relays.

The first use of the system was demonstrated by—Jones & Lamson Machine Company, at the Chicago Machine Tool Show in September, where it operated the Jones & Lamson No. 7 Turret Lathe completely automatically. A Coded signal, punched on tape, is fed into the machine and the machine moves to a pre-determined spatial position depending upon the signal. Instruction signals are punched upon a

plastic tape with each signal translated into a binary code number. Each motion of the machine is controlled through 32 possible hole positions.

★ ★ ★

PAUL HUTCHINSON has been appointed sales manager of the Laboratory Instruments Division of The Perkin-Elmer Corporation, Norwalk, it has been announced by Dr. Van Zandt Williams, vice president for sales and research.

Prior to joining Perkin-Elmer, Mr. Hutchinson was associated with Baird Associates, of Cambridge, where he was sales manager.

Perkin-Elmer produces laboratory instruments, equipment for chemical process control, and is an important supplier of telephoto lenses, bombsights and special systems for the military.

★ ★ ★

A NEW MOTOR, with a face type registered bracket and special shaft,

PLUGMOLD 2000

FASTER! EASIER! CHEAPER! TO INSTALL. . . . Unlimited convenience outlets in a continuous run — for homes, offices, factories, schools, hospitals, hotels — any building, new or old!

Write today for new Plugmold 2000 booklet!

THE WIREMOLD COMPANY · HARTFORD 10, CONN.

suitable for close-coupled centrifugal pump applications, has been developed by U. S. Electrical Motors, Inc. Built to the new rerated NEMA specifications, the unclosed motor is extra compact, with more horsepower in less space, according to the manufacturer. The pump may be mounted flush with the motor by bolting to face bracket. To prevent water from entering the motor, a solid flange and brass slinger are incorporated. The shaft is stepped with special diameters, and has shoulder and tapped hole for mounting the impeller. Shaft diameters are precision ground to very close tolerances for accurate assembly and sealing against leakage. The motors are available in ratings from 1 to 30 horsepower.

★ ★ ★

A REVISED EDITION of "Developing and Selling New Products—A Guidebook for Manufacturers" has just recently been announced by the U. S. Department of Commerce and the Small Business Administration.

The booklet, sponsored jointly by these two agencies, describes the experiences of companies which have successfully developed and marketed new products, and tells how other firms of all sizes may initiate and carry out new products programs. Copies of the booklet are available at 40¢ each from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C., and from field offices of the Department of Commerce.

★ ★ ★

JOSEPH E. LOWES, JR., president of Lowes Associates, New York and Stamford public relations consultants, has been named director of public relations for Niles-Bement Pond Company, according to an announcement made recently by A. H. d'Arcambal, senior vice president of Niles and president of its Pratt & Whitney division.

Prior to the establishment of Lowes Associates, Mr. Lowes was director of public relations for the Fairchild Engine & Airplane Corporations. Earlier he was circulation manager of Newsweek Magazine and prior to that director of advertising and publicity for the United Aircraft Corporation.

★ ★ ★

A NEW MONTHLY instalment financing plan providing for low downpayments and terms running as long as

Your Elevators Are Production Machines!

When planning new production equipment, by all means include new elevators . . . designed in every way as modern and efficient as the machine tools and materials handling equipment you intend to buy.

Old elevators give out without notice. And even short elevator stoppages can cut deep into the very savings your new machines are expected to make. Only continuous production pays off these days!

59th Year

Manfd. By
THE EASTERN
MACHINERY CO. **EASTERN**
Safety
ELEVATORS Factory:
NEW HAVEN
CONN.
PASSENGER • FREIGHT • ELECTRIC • OILDRAULIC®
Installation—Inspection—Repairs—Maintenance

self-contained steam production to fit your need



BIGELOW Boiler-Burner Unit Installed in a New England utility plant.

19 SIZES—30 to 434 HP, S.B.I.
Rating—Delivering 45 to 651
HP. Maximum Continuous
Output



Write for new
free catalog

THE BIGELOW COMPANY

New Haven 3, Conn.
Established 1833

BIGELOW
BOILER-BURNER
UNITS

PRE-ENGINEERED

—Mounted on steel frame—
Requires no special foundation,
no high stack, no induced draft fan.
Ready to operate as soon as connections
are made.

80% EFFICIENCY

RESERVE CAPACITY

—Maximum Continuous Output Rating 50% greater
than nominal S.B.I. rating.

EASY ACCESSIBILITY

. . . for cleaning and inspection

COMPLETELY AUTOMATIC—
OIL, GAS OR COMBINATION
GAS AND OIL FIRING.

81-16

KNOWN BY REPUTATION THROUGHOUT NEW ENGLAND FOR MORE THAN A CENTURY

MEN-GETTING SPECIALIST

Getting manufacturing executives, technical specialists or merchandising personnel is made easier when a comprehensive man-power specification is provided. You also save time and money by using the nation-wide recruiting facilities of this agency.

Ask for copy of new form, "Preparing a Man-Power Specification." It is free.

ADMINISTRATIVE- TECHNICAL PERSONNEL SERVICE

C. B. Howard, Placement Director
647 Main St., Hartford, Ct.



IMPOSSIBLE? . . . You may think so—but however difficult your packaging problem, Jack Wittstein has the solution. Call

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MATERIALS HANDLING ENGINEERS and EQUIPMENT

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Conveyors and Monorails
Winches Car Pullers
Buckets Grabs

Complete Systems Installed
SERVICE and REBUILDING

ROBERT ABEL & CO., INC.

112 Cypress St., Brookline, Mass.
Tel.: LONGwood 6-9610

two years for the purchase of dictation and transcription equipment has been announced by Joseph H. Hoyt, president of the SoundScriber Corporation, New Haven.

The new program was developed with C.I.T. Corporation, the nation's largest industrial financing firm.

The financing plan was the third major marketing move taken by Mr. Hoyt since he became president of SoundScriber, manufacturer of electronic, disc dictating and transcribing equipment, less than a year ago. Earlier he modernized manufacturing techniques and introduced several product advancements. A second step was the creation of SoundScriber Sales Corporation to supplement a large network of distributors, many of whom handle SoundScriber equipment exclusively.

★ ★ ★

THE DIRECTORS of the Automatic Temperature Control Company, Inc., have announced the election of Robert B. Seidel as president of the company. The Automatic Temperature Control Company, located in Philadelphia, is a wholly owned subsidiary of The Safety Car Heating and Lighting Company, Inc.

Mr. Seidel was formerly located at New Haven with The Safety Company as director of research and engineering and was transferred to ATC as its vice president, serving in that capacity until his recent election. He succeeds G. H. Johanson, founder of ATC, who is retiring.

At the same time the Board elected L. Pierre Teillon and Walt W. Winters vice presidents in charge of finance and sales respectively.

★ ★ ★

ALEXANDER S. KELLER, long identified with Niles-Bement-Pond and its Pratt & Whitney division, has re-joined the organization as a vice president of Niles, of which he is already a director, and as general sales manager of its Pratt & Whitney division.

For a number of years, until he left the company at the request of the Government to become senior industry officer of an E.C.A. Mission to the Netherlands, Mr. Keller was a vice president and director of Niles in charge of all Pratt & Whitney export operations.

He is president of the General Ultrasonics Company of Hartford and formerly was vice president and a di-

ALLEN RUSSELL & ALLEN

31 Lewis St. Hartford, Conn.

Insurance

Over 40 Years of Service to
Connecticut Manufacturers

CHASE



the Nation's Headquarters

for **BRASS
COPPER
STAINLESS-
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CHASE BRASS & COPPER CO.
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APRIL SHOWERS

Evaporative Roof Cooling
(Automatic & Patented)

- Save \$80.00
- Every Employee
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Building's 8-15° Cooler

MEASURED
by

- Degrees • Square Feet
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**Sun Controlled
Roof Cooling**

Is the **LOWEST** Cost Cooling

• **WRITE • WIRE • PHONE •**

April Showers Roof Cooling

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Boston, Mass. Tel. CO 63663

rector of the Lamb Electric Company of Kent, Ohio.

★ ★ ★

CARL H. CUMMINGS, vice president and general manager, Haydon Manufacturing Company, Inc., Torrington, has appointed R. L. Greene, sales manager of the company.

Mr. Greene, who was formerly in charge of military sales, replaces E. B. Hamlin, who has resigned to enter Berkeley Divinity School in New Haven to study for the Ministry.

★ ★ ★

REPUBLIC FOIL AND METAL MILLS, INC., Danbury, a leading producer of aluminum foil for non-electrolytic type capacitors, has announced the incorporation of Republic Etched Products, Inc., with John W. Douglas as president of both companies.

Republic Etched Products will produce extra high purity foil for use in electrolytic type capacitors. A new plant will soon be built in Danbury,



MAJOR STEEL WORK on the new Bullard Company foundry is now completed. The new building, six hundred feet long, two hundred and forty feet wide and fifty feet high, required 4,000 tons of structural steel. The foundation at upper right of foundry is for section that will house the pattern shop, employees' locker rooms and foundry office.

supervised by Republic and the engineering staff of SATMA, foremost European producer of this type of foil.

RICHARD S. PERKIN, president and chairman of the board of The Perkin-Elmer Corporation, Norwalk,

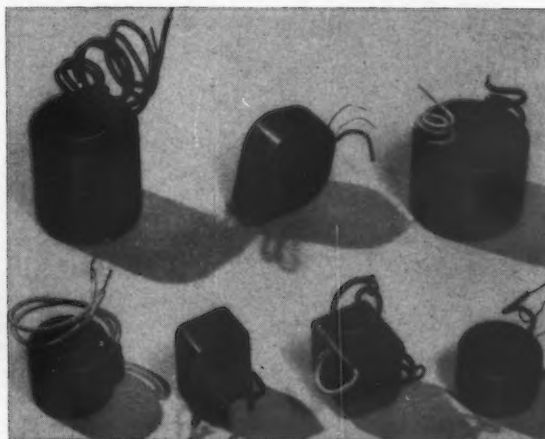
Scouting for Incapsulated Coils?



DANO makes them!

Dano, makers of a wide variety of coils is fully equipped to meet the increasing demand for these special coils. Keeping pace with modern design, Dano offers incapsulated coils with tough, molded covers that spell extra electrical insulation with freedom from moisture.

Every Dano Coil is custom-made to your specific requirements. Call or write today, and Dano's quote will be on the way!



Dano Incapsulated Coils

OTHER DANO COILS ARE:

Coils for High Temperature Application
Bakelite Bobbin • Acetate Bobbin
Form Wound • Paper Section
Cotton Interweave
Also, Transformers Made to Order



THE DANO ELECTRIC CO.
MAIN ST., WINSTED, CONN.

has been elected a Fellow of the American Academy of Arts and Sciences. The honor was accorded him in recognition of his accomplishments in the field of Administration and Affairs.

The more than 1300 Fellows of the Academy have been elected to life membership in this distinguished society in recognition of their contributions to one or more of four fields: Mathematical and Physical Sciences; Biological Sciences; Social Arts and Sciences and Humanities.

★ ★ ★

DE BELL & RICHARDSON, INC.,
plastics research and development lab-

oratories, have expanded their facilities by purchasing the mill and water power of the A. W. Dolge Company adjacent to its present 30 acre site in Hazardville.

The recent acquisition will practically double the present floor space with the addition of 20,000 square feet of working area. This space will be devoted to new chemical and engineering laboratories to relieve strain on the present capacity operations and will provide additional area for pilot plant and pilot manufacturing operations which the concern does in behalf of its clients.

IT WORKS for PRIMALITE



**A LEEDS CONVEYOR applied at Primalite Company,
New Haven, Conn.**

The Leeds Conveyor Manufacturing Co.

PROPERLY APPLIED CONVEYORS
ROUTE 80, EAST HAVEN 13, CONN.
HOBART 7-2574

A NEW DISPENSER for narrow gummed kraft tape went into production recently at Derby Sealers, Incorporated of Derby. The machine is designed to accommodate 500-ft. rolls of water soluble gummed tape from 1/2" to 1 1/2" wide. It will deliver 2 1/2" to 8" pre-set lengths with a single stroke of the lever or longer lengths on repeated strokes.

Designed to assure users of a trouble-free and long-lasting mechanism, a prototype of the Derby "400" has been subjected to extensive tests. According to the manufacturer, the tape cannot buckle or catch against the knife because the open and closed knife position is positively controlled by the cam action of the lever. No springs are used to raise the knife before tape delivery. Tape is cut automatically upon release of the punch-down lever. Thorough end-to-end tape moistening is provided by a quality brush made of tapered pig bristle with natural split ends.

★ ★ ★

LEO J. PANTAS, general manager of the Yale Lock and Hardware Division, Yale & Towne Mfg. Co., has been elected a vice president of the company, it has been announced by Gilbert W. Chapman, president.

As a vice president, Mr. Pantas will continue to direct the operations of the domestic plants producing and marketing Yale locks, door closers and other builders' finishing hardware, Tri-rotor pumps and industrial parts for other manufacturers. The Yale Lock and Hardware Division recently established its central office at White Plains, New York.

★ ★ ★

SINCE THE DISPOSAL of chromic acid wastes in the anodizing industry is of major importance because of the legislation now adopted by many of the states, Enthone, Inc., New Haven, manufacturers of chemical products for the metal finishing industry, has announced Deoxidizing Compound 89, a non-chromic acid containing material for stripping all types of anodic coatings from aluminum parts and racks. Deoxidizing Compound 89 is alkaline in nature and is used in water solution at room temperature for removing these anodic coatings by immersion only. Average coatings are said to be removed in a few seconds. The compound contains no ingredients which

make waste disposal a problem. Literature is available from the company.

The company has also announced the availability of a new piece of pocket-sized literature with descriptions of twenty series of their special products, including cover blackening of all metals, new alkaline cleaners, stripping compounds for plated coatings and for lacquers and enamels, buffing compound removal, water displacing compounds, products for treating aluminum, alkaline solutions for removing rust, and protective compounds for iron and steel.

★ ★ ★

THE ADVANCEMENT of Anthony E. Wallace, area development representative for The Connecticut Light and Power Company, to Director of Public Information, for the utility company, has been announced by P. V. Hayden, CL&P vice president. In his new assignment Mr. Wallace will be responsible for the development and execution of the company's broad, overall public relations programs and policies.

Mr. Hayden also announced the appointment of George G. Hanel, advertising manager, as manager, advertising and publicity department. He will be responsible for the development of the company's advertising and publicity programs.

Mr. Wallace, before joining CL&P in 1952, was assistant director of the research and planning division of the Connecticut State Development Commission for seven years. He is a member of the American Institute of Planners, American Marketing Association and is on the advisory committee of the Connecticut Council for the Advancement of Economic Education.

★ ★ ★

THE FIRST OPEN and unclassified discussion to be held on harnessing thermonuclear energy—the energy released in the explosion of the H-Bomb—for peaceful purposes will be presented at the luncheon session on the third day of the National Industrial Conference Board's 4th annual conference: "Atomic Energy in Industry." This meeting will be held October 26, 27 and 28 in the Waldorf-Astoria Hotel. Hans Thirring, director of the Institute for Theoretical Physics, Vienna, will be one of the principal speakers at the session on the non-weapons potentials of thermonuclear energy.

The Board's three-day conference will

explore foreign progress and prospects for world-wide development of peaceful uses of atomic energy as well as review developments in the United States. More than 2,000 leaders in government, science and industry from this country and from more than 24 other nations are expected to attend the sessions and participate in discussions designed to further international cooperation for the betterment of mankind.

★ ★ ★

A NEW Beta-Gamma Radiation Survey Meter, designed and developed by Cornell Aeronautical Laboratory, and manufactured under license by Quantum, Inc., Cheshire, is now in production, according to an announcement by Clinton M. Doede, president.

This unique new meter has a built-in radium source which calibrates not only the electronic circuit, but the entire instrument. The dial is illuminated for blackout reading. It has a simple color scale based on universal traffic signal code: green indicates safety, yellow caution, red danger. The indicator reflects the degree of radioactivity contained in the subject under examination within plus or minus 10 per cent. The logarithmic scale ranges from 0.001 roentgens per hour to 100 roentgens per hour. Field tested at various atomic bomb proving centers, the device is recommended for scanning radiation installations, equipment, working areas, residential sections, or wherever fall-out might be present.

★ ★ ★

WILLIAM S. SHERMAN has been appointed to the newly created position of plant sales manager of The Gray Manufacturing Company of Hartford, it has been announced by Walter E. Ditmars, president. He will be responsible for sales activities at the plant, as well as scheduling and inventories. He has been with Gray since 1951.

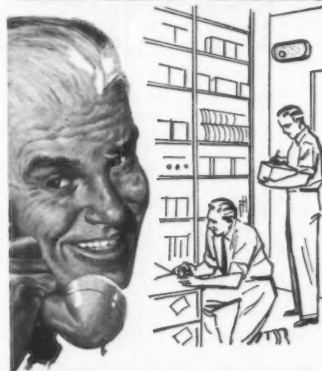
Prior to joining Gray, Mr. Sherman was with the Finch-Pryn Company of Glen Falls, New York. He attended Princeton University, and is a veteran of the Pacific theatre, where he served with the U. S. Army during the war.

★ ★ ★

THE ANCIENT PRACTICE of collecting excise taxes on deeds and documents by stamps is about to yield to modern mechanization.

In the first installation of its kind in this country, the Commonwealth of Massachusetts recently placed in of-

New! LOW-COST TELEPHONE INTERCOM



- Private telephone in your offices
- 2-way loudspeaker in work areas



DIRECT-A-CALL

Help your staff get more done with less effort, by eliminating waste motions. Connecticut's new DIRECT-A-CALL gives you advantages of quiet, dignified telephone intercom combined with the convenience of two-way loudspeakers in work areas. Phones and speakers can be connected in any combination on one DIRECT-A-CALL system. Pushbutton signalling on all phones, makes every phone a "master" station. Voice-clear intercommunication with handsome plastic phones that need virtually no maintenance. Anyone can install it easily; plugs into 110 v. outlet. Handles up to 10 stations.

Typical 5-station system **\$179⁵⁰** complete

Large Automatic Systems

Connecticut's automatic, dial-operated systems serve from 5 to 5,000 stations. Features: voice paging, central dictation, executive priority, conference circuits, etc.

Connecticut

TELEPHONE & ELECTRIC CORP.

206 Britannia St. Meriden, Conn.

Send literature and prices on DIRECT-A-CALL systems for _____ stations.

Designers and Manufacturers

of Tools, Dies, Jigs, Fixtures and
Gages

Jig Boring and Jig Grinding
Precision Form Grinding
Planing, Boring, Turning
Cincinnati, Lucas and Bullard
Machines

We build Special Machinery
and Parts
Welded Fabrications
We will do your Stampings and
Spot Welding
Progressive — Swedging
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Short Runs — Long Runs

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DRY PRESS
(STANDARD ITEMS)

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HEAVY . . . but Wittstein con-
tainers are extra strong to give
your product added protection.
Call

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Box 1348, 56 Church Street
MAin 4-5121, New Haven 5, Conn.



ficial use a "documentary tax-stamping
meter" for evidencing payment of the
tax which the state levies on land and
realty deeds.

The machine, essentially a converted
postage meter and about the size of a
typewriter, does away entirely with the
buying and handling of state deeds ex-
cise stamps which are limited to nine
denominations ranging from 5 cents to
\$1,000. By moving levers on his state
tax-stamping meter, a deeds register
can print a single meter tax stamp in
any one of nearly two thousand differ-
ent values as needed—from 5 cents to
\$99.95.

The newly streamlined tax system
was developed by William A. Schan,
Commissioner of the Massachusetts
Department of Corporations and Taxa-
tion and his staff with the cooperation
of Pitney-Bowes, Inc., Stamford, man-
ufacturers of postage meters and busi-
ness machines.

★ ★ ★

THE PLASTICS DIVISION of
Colt's Manufacturing Company, Hart-
ford, has just published a combina-
tion catalog page-price sheet on its line
of "Featherweight" Plastic Cosmetic
Containers. The sheet illustrates eight
sizes available, from 1/8-ounce to 8-
ounce, and shows a diagram of the
"air-insulated" feature which has
gained wide acceptance of the con-
tainer in cosmetic and pharmaceutical
fields.

★ ★ ★

A NEW LINE of cam vises specifi-
cally built for use on production
equipment is now available from the
Modern Tools Division of the Nelco
Tool Company, Inc., of Berlin.

The complete line of Modern cam
vises is said to be precision built to
afford quick and easy operation on mill-
ing machines, shapers and drill presses.
Vise bodies are machined from speci-
ally compounded alloy castings that are
guaranteed stronger than cast iron, as
shock resistant as steel.

Four models are stocked: 4" jaw
width with 5/32" or 3/8" cam throw
and 5" jaw width with 5/32" or 3/8"
cam throw. Jaw depth is 1 1/2" with
keyways 5/8" wide and 1/8" deep. Lit-
erature and complete information may
be obtained from the company.

★ ★ ★

A NEW APPROACH to the problem
of difficult separations has been an-
nounced by Morris S. Shipley, presi-

call on us for
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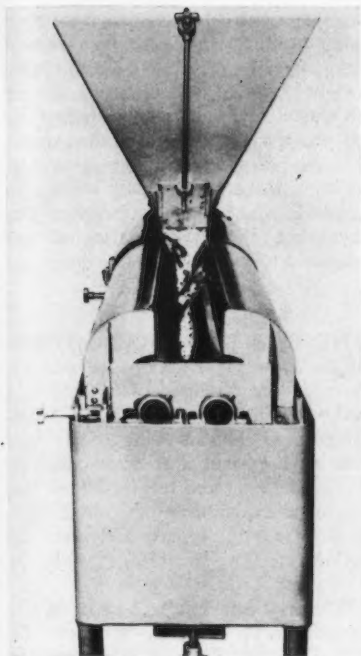
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reset after current interruption has been announced by The A. W. Haydon Company of Waterbury. These timers can be supplied hermetically sealed in an extruded aluminum housing, or can be provided in a standard dust cover.

Their primary function is for delaying application of plate voltage in gas and vacuum power tubes until filaments or heaters have reached the proper temperature.

★ ★ ★

THE EXECUTIVE COMMITTEE of the New Haven Railroad have authorized the purchase of 500 all-steel roller-bearing box cars and ten diesel-electric switchers at an aggregate total cost of approximately \$5,080,000, it has been announced recently. They also approved expenditure of approximately \$165,000 for repairs and modernization of the drawbridge over the Saugatuck River at Westport.

The new box cars will be of 50-ton capacity, with an inside length of 50 feet 6 inches. They will be the first roller-bearing freight cars ever ordered by the New Haven.

★ ★ ★

J. WALTER GULLIKSEN, general manager of the Waterbury Manufacturing Co., has been elected vice president, Waterbury Mfg. Co. Division, Chase Brass & Copper Co., it has been announced by Richard C. Diehl, president of Chase.

A native of New York city, Mr. Gulliksen was graduated from Stevens Institute of Technology with a degree in mechanical engineering. He also completed post graduate work in commercial law and salesmanship at New York University; industrial personnel management at Rutgers University; and metallurgy at Worcester Polytechnic Institute.

★ ★ ★

THE NORDEN-KETAY CORP. of Milford and New York and Plessey Co., Ltd., of England, have combined to form Ketay Limited, for the purpose of manufacturing synchro and servo-mechanisms in England.

Plessey, largest European producer of electronic components, will provide the manufacturing facilities and Norden-Ketay will supply technical information.

★ ★ ★

A. O. SAMUELS, president of the Connecticut Chemical Research Cor-

THE STORY OF DROP FORGINGS AND THE BILLINGS & SPENCER COMPANY

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poration, Bridgeport, has announced that his firm has acquired the Goodyear Rubber Sundries Corporation, manufacturers of vinyl plastic film, located in New Haven.

According to Mr. Samuels, the acquisition of the Goodyear business is part of a program of diversification undertaken by the Connecticut Chemical Research Corp., manufacturers of aerosol type spray bombs.

The announcement revealed that the Goodyear plant will be operated as a separate division and entity.

★ ★ ★

MACHLETT LABORATORIES, INC., manufacturers of electronic tubes, Springdale, will approximately double in size, both in employees and plant, during the next two years, it has been announced.

According to H. Sherwood Cooke, manager of X-ray sales, in the first public announcement of the move, the company plans to expand into the field of photomissive products—electronic tubes used in television cameras, for memory storage in computing systems, and secret military uses.

Machlett Laboratory products have been used in radar, radio, X-ray, both filming and for treatment, all types of broadcasting, telecasting, rectification of electrical power, and even precipitation of smoke particles. The new division will put the company in the

television field, which, according to Mr. Cooke, is greatly expanding in its commercial applications in addition to use as an entertainment medium.

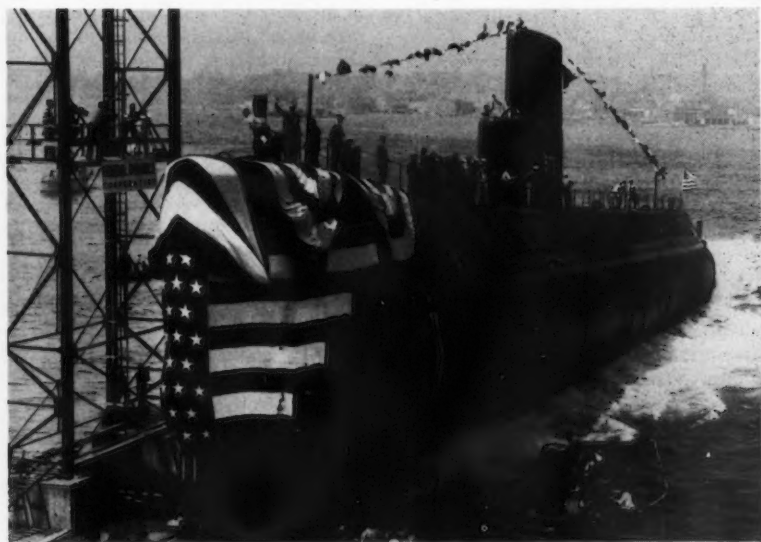
★ ★ ★

CRAIG D. MUNSON, former vice president for sales of the International Silver Co., Meriden, was recently elected president. He succeeds Maltby Stevens, who died in June.

John B. Stevens, former general sales manager of wholesale lines, was elected vice president for sales to succeed Mr. Munson. He was also made a director and executive committee member. Both men come from families long established in the silverware industry.

Mr. Munson joined International in 1920 as a trainee salesman after graduation from Yale. Later he became advertising manager, then manager of the Sterling Silver Division. He was made a director in 1928, a member of the executive committee in 1929 and in 1935 vice president for sales. He is a director of International Silver Co. of Canada, the Jewelry Industry Council and of several other organizations. He is also vice president of the Twenty-four Karat Club and a member of a half dozen civic and social organizations.

Mr. Stevens, a graduate of Yale University, joined the company in 1939 as manager of the sales statistical department, occupying several management posts prior to being made sales man-



THE ATOMIC-POWERED submarine Seawolf checks its high-speed launching run in the waters of the Thames River at Groton. Launching took place in July at the Electric Boat Division of General Dynamics Corporation.

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ger of wholesale lines in 1954. He is a director of International Silver Co. of Canada and Yale Alumni Fund and secretary of the Wallingford YMCA. He also holds membership in several civic and social clubs.

Maltby Stevens, whose untimely death occurred June 29 after a short illness, was a member of a family which had pioneered in the establishment of the silverware industry. Born in Glastonbury and educated in the Wallingford public schools, he went to work for International Silver Company in 1912. Except for two years war service with the famous Yankee Division in World War I, and brief service previously on the Mexican Border, he spent his entire working life of 40 years with International.

The positions he held with the company during his lifetime included: foreman, assistant superintendent, plant manager, general manager of flatware and cutlery manufacture, which preceded his election to the board of directors and executive, committee, vice president and president since 1951.

Mr. Stevens has served as a director of the Meriden Hospital, as a member of the Court of Burgesses of Wallingford and was past president of the Meriden Home Club. He was also a director of several organizations including the Wallingford Bank and Trust Company, the International Silver Company of Canada, the Manufacturers Association of Meriden, and a one-time director of the Manufacturers Association of Connecticut.

★ ★ ★

THE ELECTION of Burton G. Tremaine as chairman of the board, Burton G. Tremaine, Jr. as president, Henry J. Millington as vice president and John L. Busey as a director of the Miller Company, Meriden, has been announced by the board of directors.

Mr. Tremaine, who has been president of the company since 1934 will continue his active interest in the firm.

The younger Mr. Tremaine, newly elected president, has been executive vice president since January 1951, and a director since August 1949.

In addition to being elected vice president, Mr. Millington was also appointed manager of the Illuminating Division. He has been assistant to the executive vice president since August, 1953, and has been assistant secretary and treasurer for the past seven years.

Mr. Busey of Fairfield, retired as vice president in charge of marketing

services for the General Electric Company last fall. Prior to that he served for fifteen years as president of the General Electric Supply Company, and has been associated with the electrical industry his entire career.

★ ★ ★

ALBERT S. REDWAY, the Association's president, has recently been elected president of Rockbestos Products Corporation, New Haven, manufacturers of insulated wires and cables.

Mr. Redway had been president of the American Paper Goods Co., Kensington from 1949 until it was acquired by Continental Can Co. last October. Since then he has been serving as general manager of research and development for the division.

A native of Pittsfield, Mass., he is a graduate of Massachusetts Institute of Technology. His first position was with the old Colony Envelope Co., in Westfield, Mass., and subsequently was connected with the Farrel-Birmingham Co., Ansonia, for 18 years, and served as executive vice president and general manager of the Geometric Tool Co., New Haven, before joining the American Paper Goods Co.

Mr. Redway became president of M.A.C. in January 1955, and has been president of the Manufacturers Association of New Haven, president of the Connecticut branch of the National Metal Trades Association, New Haven, vice president of the New Haven Chamber of Commerce, vice president of the New Haven YMCA, a director of the New England Council and chairman of the New Haven section of the American Society of Mechanical Engineers.

★ ★ ★

THE PURCHASE of a 31-acre industrial site at Willimantic by Jones & Laughlin Steel Corp., the nation's fourth largest producer of steel, has been announced by C. L. Austin, president. The plant to be constructed on the site will be used for the production of cold finished steel bars.

★ ★ ★

ALAN DAVIS, president of Viking Instruments, Inc., East Haddam, has announced the election of John F. Glump to membership on the board of directors of the company. Upon his election, Mr. Glump was promoted to vice president in charge of sales and advertising for the company and also for its Econo Products Division.

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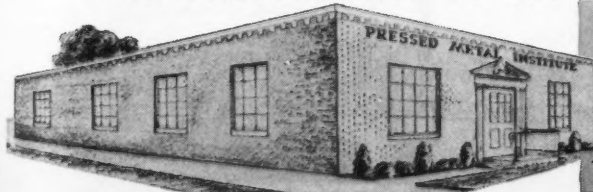
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THE APPOINTMENT of George Cagen as chief product engineer of the Lux Clock Manufacturing Co., Waterbury, has been announced. Mr. Cagen will head a new department devoted to developing new products and adapting present Lux timing devices to

broader application in the original equipment field.

The company, presently a major supplier of washer, dryer and range timers, plans to launch an extensive product diversification program.

Mr. Cagen, who was graduated from

Worcester Polytechnic Institute with a degree in Mechanical Engineering, previously served as chief engineer with both Jaeger Watch Company and Self Winding Clock Co.

★ ★ ★

A COMPACT, simple and dependable device that signals whenever water in the bilges of boats reaches a predetermined level, is now available, according to its manufacturer, the Gems Company of Newington.

Described as easily installed and practical for craft of any size from small pleasure boats to ocean-going ships, the Bilge Level Indicator can be connected to operate a warning light, horn or other signalling device at any convenient location; operating through a suitable relay, it can also be used to turn on a bilge pump automatically.

Construction, it is stated, is designed to insure long life and resistance to corrosion. The body is of tough nylon plastic; float entirely contained within the body is cellular foam plastic chemically inert to fuels, oil and salt water. Wire leads are duplex nylon jacketed. The switch unit, hermetically sealed in glass, is explosion-proof and corrosion resistant.

★ ★ ★

A HERMETICALLY SEALED Float Level Indicator, for control or indication of levels of various liquids, is available from Revere Corporation of America, Wallingford.

The F-8685 Indicator, weighing 0.9 ounces, is described as having no exposed metal parts and may be used with solvents, oils, acids and other chemicals. The hermetically sealed, single pole single throw switch, rated at 10 watt load at 115 volts a.c., 0.5 amp resistive or inductive load at 28 volts d.c. (L/R—0.026) has a 100,000 cycle minimum life. The switch is enclosed in a nylon stem and is actuated by permanent magnets imbedded in the free float.

★ ★ ★

THE ESTABLISHMENT of the Avco Advanced Development Division, with headquarters in Stratford, has been announced by Victor Emanuel, chairman and president of Avco Manufacturing Corporation. The division will be staffed by members of Avco's team of scientists.


Nucleus of the new division will be existing laboratory facilities at Everett,

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" . . . Our policy regarding this disaster is to demonstrate to our members in a practical manner that "medical service" means more to us than a corporate title. We think this is a time when our unfortunate members can well use the real service which CMS was established to provide . . . "

*Letter to all Participating Firms
September 9, 1955*

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GENERAL OFFICES: NEW HAVEN

Mass., and design facilities at Stratford. Production facilities at Stratford and Cincinnati, also will be utilized. S. B. Withington, vice president of Avco and president of the Lycoming Division will act as general manager of the new division.

The staff, to include specialized production personnel as well as a high ratio of scientists and engineers, is expected to reach its peak in the next 18 months. Initial work being performed is in the field of missile development contracts for which have been awarded Avco by the Air Force.

★ ★ ★

BUSH MANUFACTURING CO., Hartford, has announced the appointment of Alan Decker as vice president in charge of manufacturing and general engineering. For the past year he has been general manager of Heat, Inc., a wholly-owned Bush subsidiary, in Brewster, New York.

Mr. Decker is a graduate of Webb Institute of Naval Architecture. He is a member of the American Society of Refrigeration Engineers and has served as company representative on several

technical committees of the American Refrigeration Institute.

★ ★ ★

A REGIONAL COST CONFERENCE, sponsored by the Hartford Chapter, National Association of Cost Accountants, is to be held at the Hotel Statler, Hartford, October 28 and 29. Edgar J. Cossette, Jr., partner in the firm of Knust, Everett and Cambria, Hartford, is conference committee chairman.

Three sessions will make up the technical program. On Friday morning, October 28, two talks are scheduled—one on return on investment as a measuring stick, and the other on capital investment policy. In the afternoon, members will break up into six groups to discuss processing industries, job order industries, mass production industries—hard goods, mass production industries—soft goods, wholesale and retail merchandising and service industries.

The final session on Saturday morning will feature a panel session on gearing reports to management needs.

The Roser Tradition In Tanning

(Continued from page 9)

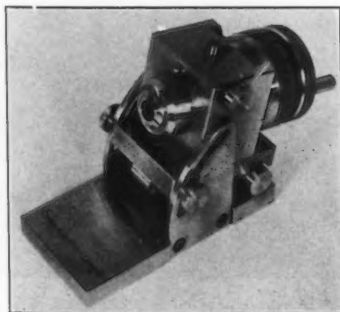
Formerly, as with the removal of the excess fat, unhairing was a manual operation. Today, specially built vats filled with chemicals accomplish this task safely and cleanly.

Following unhairing, the skin is "bated." Bating cleans the skin of superfluous products and allows for more uniform tanning. Actually, bating does more than clean the skin; it removes nitrogenous matter about the bristle holes that extend all the way through the skin, making the bristle marks visible on both sides of the finished skin. This characteristic is a positive identification of genuine pigskin leather. Bating thus helps to accentuate the grain pattern of the skin and adds to its attractiveness.

The Roser success is partly due to the fact that the company has developed unusual and dependable techniques for degreasing and bating the skins to assure uniform conditions when the tanning process begins.



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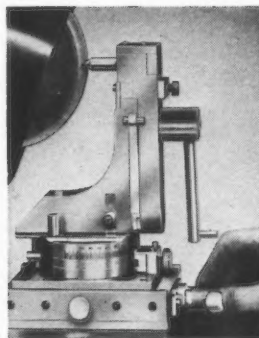
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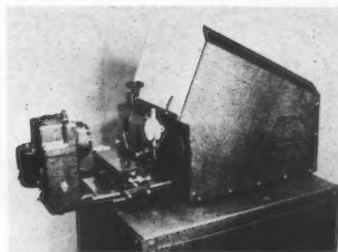
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By using HAWKRIDGE as its source for these 1 1/4" Halcomb 440 bits, Ruland Manufacturing Co., Watertown, Mass., insures uninterrupted production of finish-turned castings and eliminates cost-consuming delays in production. Ruland depends on HAWKRIDGE as a source of Class A steel products because HAWKRIDGE's on-the-spot stocks are complete . . . deliveries are prompt.

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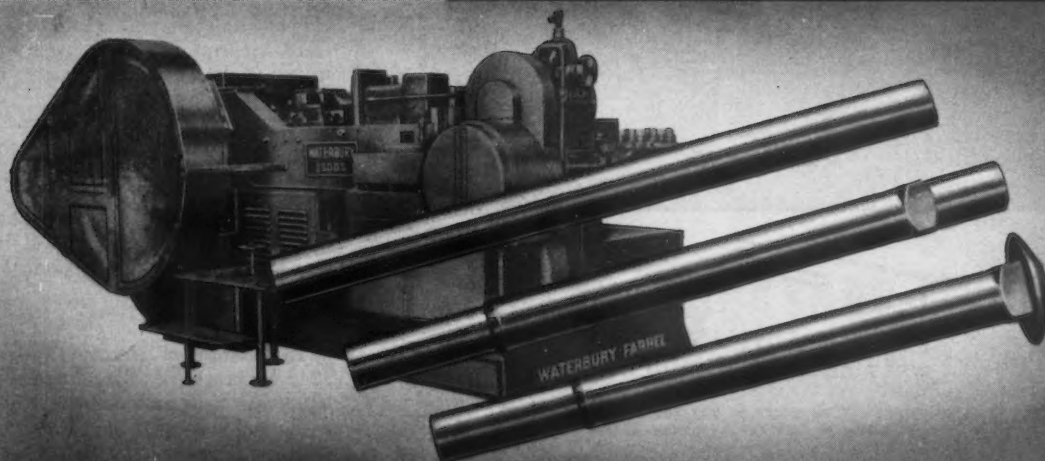
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Unbalanced yarn spinning at 10,000 rpm imposes tremendous stresses on this textile spindle made by H. H. Arnold Co., Rockland, Mass. So Arnold uses HawkrIDGE Tri-Met to insure long life and trouble-free performance.



To insure its supply of cold rolled strip for its Craig Projecto-Editor, The Kalart Co., Inc., Plainville, Conn., depends on HawkrIDGE as a source to absorb seasonal demand peaks.



Hardy header dies made from specially heat-treated die steel supplied by HawkrIDGE are the heart of this Solid Die Double Stroke Header made by The Waterbury Farrel Foundry and Machine Company.

The second or tanning stage, where in the skins are actually tanned and converted into leather, is done with paddle wheels and revolving drums in which the skins are agitated in a mixture or blend of various tanning "extracts." These extracts contain, in concentrated form, tannins with properties similar to those present in the oak bark used in the early years. One of these is quebracho extract, made from the wood of the extremely hard quebracho tree which grows in the forests of Argentina. Another is wattle extract, made from the bark of wattle trees commercially grown in East and South Africa.

The tannage of Roser pigskin is a predetermined slow one. It cannot be hurried. It is an old adage, attributed to a Scottish tanner, that "to make good

pigskin it takes Time, Time and more Time."

After tannage is completed, the skins are washed and are then ready for the third and final stage, the "finishing" process. In this stage the leather is split to a uniform thickness, "fat-liquored" (impregnated with oils), stretched and dried under strict temperature and humidity controls, colored with aniline dyes, polished, softened, and trimmed. And finally, an intricate machine measures the square area of each pigskin and performs this operation at least ten times faster than by the old eye or rule method, and more accurately.

The average size of a pigskin is about 12 square feet, although the range is from 2 to 30 square feet. There have been occasional skins measuring

close to 40 square feet, almost the size of a cowhide.

It was an amazing conversion from tanning methods hundreds of years old, and once considered absolute, to newer and better methods that produced finer quality pigskin. It was more amazing because, with each new improvement in processing, the Rosers raised their standard of quality progressively until "Roser pigskin" and "top quality pigskin" were synonymous.

The company's concern with progress was also evident in the highly complex water purification program initiated at the tannery. Formerly all water used by the tannery was merely sluiced off into the stream that supplied the tanning water needs. The used water, containing foreign materials from skins, served only to pollute the stream. Today, after years of study and expense, every drop of water used by the tannery is purified before it is returned to the stream.

The Close of an Era

The year was 1929, and now the last of Herman Roser's sons, Conrad, joined him in the tannery. Thus, as it had been in Europe with Herman Roser's ancestral line of tanners, so it was now with him—a tannery in which his sons worked and prospered.

He had built an American tradition; it was complete, strong and invested with the Roser principle of quality. In 1933, Herman Roser made the tradition legal—he changed the name of the company to "Herman Roser & Sons, Inc."

But the joy was short-lived. Two years later, Conrad died; and the youngest of Herman's sons, beloved by his fellow citizens of Glastonbury who had elected him their representative to the State General Assembly, was committed to the earth in a cemetery near the town "Green."

It was as if something had been removed from Herman's life. It was true that he still spent long hours in the tannery, keeping in close touch with the work, but John and Martin knew that the old spirit in him had been shaken with the passing of Conrad.

Modern Times

The passing of Herman Roser, in 1947 at the age of 88, and one of the last survivors of a departed age, closed a significant chapter in the story of pigskin tanning in America. It was an age that had begun with the opening

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A UNIT OF NATIONAL STEEL CORPORATION

of the West and the quick growth of the industrial East. It was an era of transformation.

The growth of Herman Roser's company paralleled that of many other American concerns—from modest and unassuming beginnings, Herman Roser & Sons, Inc. has become a recognized leader in its field.

Since the passing of their father, John and Martin Roser have done more than just carry on the business of the company—they have moved vigorously ahead to meet the changing needs of our day.

These changing needs have brought about a demand in pigskin leather for new colors and new finishes for new purposes. Light weight airplane luggage was unknown 60 years ago, as were light weight wrist watch straps, to mention two items. On the other hand, articles such as puttees, for which much pigskin was used in former days, are now unfamiliar to most.

In addition to puttees, the chief outlets for pigskin in the early days were saddles, horse collars, whip handles, straps, suspenders and bookbinding.

Today, with the exception of horse collars which are practically extinct on the American farm scene, Roser pigskin is still used for all the previously mentioned purposes. But the chief outlets are for "personal" leather goods such as wallets, pocket secretaries, memorandum books, cosmetic cases, key cases, men's and women's belts, fine shoes, dressing cases, choice luggage, brief cases, watch straps, and the like.

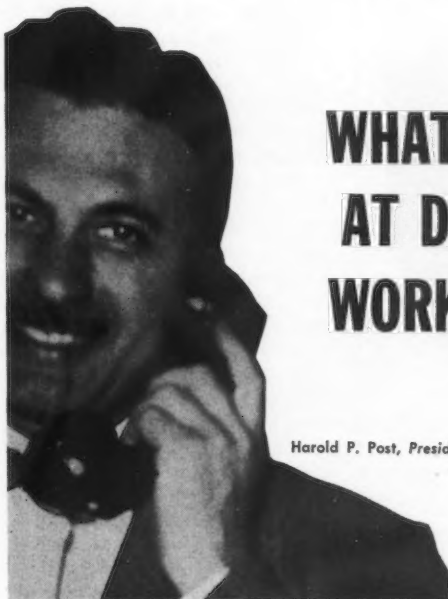
Changes in the use of pigskin have brought changes in customers too, but three concerns, whom Herman Roser supplied in his early days, have for two-thirds of a century continued to demand Roser pigskin for their fine products: The Smith-Worthington Saddlery Company of Hartford, established in 1794, makers of fine riding saddles; C. F. Rumpp & Sons, Philadelphia, established 1850, nationally known makers of high grade leather goods; and Bartley Brothers of New York, established 1791, (successors to Veil Brothers) former producers of saddles and now manufacturers of custom-made belts and other fine leather articles.

For the development of new uses and expanded outlets for Roser pigskin, especially in recent years, unre-served credit is given to the Roser representatives, Martin G. Kliemand,

New York; D. C. Kennedy Co., St. Louis; A. J. & J. R. Cook Co., Los Angeles and San Francisco; and J. E. Tracey, Cincinnati.

It takes more than management and machines to produce good leather. An inherent need in the production of all

fine materials is highly skilled and loyal craftsmen. The Rosers have always been fortunate in having such a group of employees, many of whom have devoted a lifetime to their work and to the Roser tradition of making the best pigskin leather possible.



Harold P. Post, President

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*Heavy Production equipment
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A Look To The Future

It is highly significant that in this, the 101st anniversary year of the operation of the tannery in Glastonbury, younger members of the family are beginning careers in tanning.

In 1950, son-in-law Roger Bestor, who married John's eldest daughter Nancy, entered the Roser business to learn the tanning art. Educated at Trinity College in Hartford, where he starred as football captain, Mr. Bestor earned a distinguished World War II combat record as a member of the famed 101st Airborne Division. He is presently devoting his talents and energies to managing the sales and sales promotion operations of the company.

And, as this is written, a ninth generation of Rosers joins the firm, continuing unbroken the family ties in tanning which stretch back to Kasper Roser and the year 1695. David, Martin Roser's son, recently returned from a tour of duty with the army occupation forces in Germany. He, like many Roser sons before him, will be carefully prepared for an outstanding career in tanning. He will learn the art thoroughly. He will be as carefully schooled as the many young Roser men who preceded him.

In a sense, Roger Bestor and David Roser are the touchstones of the Roser future. Through their efforts the great Roser tradition in pigskin tanning will be nurtured and maintained.

Time has changed many things since the day when Herman Roser first stepped into the tannery at Glastonbury. Yet one thing is fixed and un-moving. It is "quality," as inherent and as unshakable in the Roser tradition as is the bent of nine consecutive generations to follow in the tanner's art.

Producto Builds National Die Set Business Progressive Expansion Program

(Continued from page 11)

has provided: Detailed reports on previous days output; cumulative and daily targets for machine and men; immediate requirements for any job, any stage; reduced inventory and simplified inventory control; and perpetual accounting control. The value of a system that makes it possible to have a complete, detailed report of the previous day's production delivered to management by 11:00 A.M. each day, is readily apparent. Connecticut manufacturers interested in learning more

about his system are invited to call Producto to arrange for an inspection tour.

While die sets are the chief product of Producto, the company also manufactures a complete line of diemaker's accessories and toolroom equipment. The latter line includes press feeding devices, hand tapping machines, vises, and utility and foot presses. Producto also has a Machine Tool Division which designs and builds Index Mill-Matic machines. These automatic production-type millers are widely used by top manufacturers in the automotive, aircraft, office equipment, farm machinery and other industries. Finally, the foundry, in addition to providing semi-steel for die set components, supplies castings to several of Connecticut's leading machine tool builders.

This multiple operation is directed by an unusually able brother team—Newman M. Marsilius, Jr., president, and Philip R. Marsilius, vice-president and secretary. Both are still in their 30's, yet they have managed to make substantial contributions to the welfare of the community—local, state, national and business—without neglecting their challenging business activities.

Newman is now serving as a Connecticut State Senator after several terms in the House of Representatives at Hartford. He is active in a host of local civic organizations and is a director of the Manufacturers' Association of Connecticut, Inc.

Phil has been treasurer of the National Tool & Die Manufacturers Association for the past three years and is program chairman for the forthcoming biennial convention of the American Society of Tool Engineers. He formerly served as chief of the Tool, Die, Jig and Fixture Section, Metalworking Equipment Division, National Production Authority, in Washington.

The Producto Machine Company was founded in 1928 by Newman M. Marsilius, Sr., as successor to the Bilton Machine Tool Company. He is now chairman of the board and semi-retired. Other officers are Elton G. Rogers, vice-president, and William J. Hamilton, treasurer.

In addition to its 65,000-square-foot plant at 990 Housatonic Avenue in Bridgeport, the company operates modern die set assembly warehouse plants in New York City, Detroit, Cleveland, Dayton, Rochester, Philadelphia and Kansas City.

THE PEOPLE BEHIND the PRODUCTS

At American Thread

Probably the most important factor in the quality of any product is the people who make it.

This series is designed to let you meet some of the citizens of Willimantic who have been asked to help make the thread and yarn products which are considered among the finest made anywhere in the world.



THE TWO TURCOTTES—

Jeanette and Oscar Turcotte both work at Willimantic in the Wool Dept.

Both came to American Thread in 1952 from Corridale Mills, Moosup. During World War II, Jeanette worked for American Woolen for six years while Oscar was in the Army. His unit fought in North Africa, Italy, Normandy campaigns... won a Presidential Citation.



WINDER—Mrs. Turcotte winds single wool yarn from the spinning bobbin to a paper cone in order to make a long continuous strand of yarn. The yarn is later used as a supply package in doubling.



TWISTER TENDER—Turcotte tends the running of a set of twister frames in the Wool Department. His main function is to repair any breaks that occur in the yarn while it is in operation.



DOWN ON THE FARM—During their spare time, the Turcottes raise chickens, rabbits and pigeons on their farm on Frost School Road, Canterbury. Turcotte also belonged to the Canterbury Volunteer Fire Department for a year, and in his grammar and high school days, was a member of the school bowling club.




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Thread COMPANY

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Heating Gives
Uniform Results
Everytime*

Exactly duplicated photos show how dielectric heating is being used to set glue in the manufacture of electronic organ cases at the American Woodworking Company, West Haven, Connecticut.

When the exact duplication of heat processing is of prime importance dielectric heating is highly adaptable to continuous production line methods.

The result is an increase in the speed of operation, a reduction in labor costs and an improvement in the quality of your product.

Flexible, dependable dielectric heating is equally effective for penetrating or surface heating. And control of heat and depth of penetration is assured at all times.

Dielectric heating should not, however, be applied indiscriminately. The equipment to be used and its application should be thoroughly engineered. Your Industrial Power Engineer will be glad to discuss the various methods and applications of dielectric heating with you. Call him today.



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- Produces heat within the product itself.
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PUBLIC RELATIONS

BY A. F. KACYNSKI

Public Relations Director

DISASTER is a pretty good course in public relations. It teaches people how to get along with people. The first time you see a man's house topple over, his possessions float down a swollen river, his factory destroyed, or his job taken away from him you learn that the set-back is not just his—that you have a responsibility to the man on your left and the man on your right.

Even the safety and security of a few miles distance from the scene does not blot out the responsibility. The togetherness of purpose is still there. The recent flood pointed up that responsibility to the man on both sides which is overlooked during tranquil times—times of security, safety and prosperity.

A new chapter in public relations has been written in Connecticut, in all of New England and the adjacent states that have been wrecked by ripping waters on the day of August 19, 1955.

People, government, industry, welfare organizations and all groups reacted with the sameness of purpose to help stricken flood sufferers. To the left and to the right people did unselfish things to help people to their feet. And industry once again proved itself unselfish and showed its true public relations colors.

In many cases, free of charge, Connecticut industry offered to dry out electrical motors, recondition machinery, dry out valuable records. Others offered long lists of valuable equipment free of charge. Factory space was donated for manufacturing or storage. Everyone pitched in to help industry dig itself out of the mud and ruins.

The Manufacturers' Association from its headquarters on Farmington Avenue in West Hartford moved quickly to get information on the bluest Mon-

day of the century, August 22, to enable the association to organize a program of assistance to flood damaged manufacturers. The entire MAC staff went into high gear and spent nine days finding out (1) what services undamaged industry had to offer and (2) what services were needed by affected industries to get them into production as soon as possible. Huge mailings and constant telephone inquiries were processed concerning available or needed reconditioning services, machinery and equipment, subcontracting facilities,

raw materials, personnel, and financing.

Through the exchange of information the MAC has been able to locate motor drying facilities, hardwood sawdust for tumbling, rust removing equipment, drying ovens, steam cleaning equipment, use of personnel such as engineers and reconditioning consultants, storage space and even a small factory fully equipped which would be turned over on loan or by mutual arrangement.

Augmenting this bee hive of activity were staff members who were in the damaged areas to determine on-the-spot needs of stricken plants. Phone calls from these men were handled immediately. No request was overlooked. A manufacturer's son who had been digging in the affected area left his pick and shovel to go back to school, but neglected to get his typhoid inoculation. His worried father could not reach him. The MAC found him, the boy got his shot and his grateful father went back to the digging at hand.

The catastrophe will never be forgotten and the public relations lesson

Time Running Out ?

competitors getting ahead?

Maybe:

- ... it's time to sell out
- ... it's time to reduce personnel
- ... it's time to retreat

Probably:

- ... it's time to improve products
- ... it's time to analyze sales
- ... it's time to evaluate advertising

R.H. Young and Associates

998 Farmington Ave.,

ADVERTISING

West Hartford, Conn.



will be remembered for a long time. We will have security and safety once again. The neighborliness can be expected to continue for some time and we hope it never diminishes. Security and safety doesn't give you the same neighborliness as a flood. It can't. There isn't the togetherness of purpose. But the responsibility to those on your left and right is still there. We hope the public relations lesson is never forgotten.

Market Research— What Is It?

(Continued from page 18)

doing it and they *are* selling more goods."

You and your salesmen know your customers and dealers well. You know their buying habits and many of their particular problems. You also know a lot about your competitors—their prices, the quality of their service and

the strong or weak features of their products. In fact, you have such a vast amount of detailed knowledge gained through day to day contact and experience that it is often impossible to sort out the important information when you must make decisions about sales policy and practices.

Market research works with the same kind of information but it collects it in orderly, systematic way and compares its findings with basic statistical data which soon show up any important errors or omissions. Market researchers are trained to be on guard against prejudices—their own, their associates' or those of individual customers. They are also taught to record their findings and to present them in useful, readable style.

Will we lose business if we increase the price of our PY-D motors? Will the trade accept bright dipped in place of the polished brass bottle caps which we have been supplying? Is the dealer in Milwaukee doing a good job for us? The *right* answers to questions like these can mean more sales. Don't guess. Let market research find out.

How to Find Out More About Market Research

You will find many sources of practical information about market research near you. The Manufacturers' Association of Connecticut, your industrial council or your local chamber of commerce can get information for you or you can get in touch with the economics or business administration departments at any of our colleges and universities. The American Marketing Association has a Connecticut chapter which holds informal monthly meetings in various cities in the state. At these open meetings you can meet people from the industrial firms who have market research programs and they will be glad to help you find out more about it. You can get information about the meetings by writing to Edward M. Lockwood at the Sprague Meter Company in Bridgeport or to O. H. Tift, Wico Electric Company, West Springfield, Mass.

Don't overlook your local library. If it has a technical section it will probably include many books and pamphlets on market research. An excellent book for manufacturers is *How To Use Market Research For Profit*, by Willard M. Fox, published by Prentice-Hall, N.Y. An excellent pamphlet is *How Marketing Research Helps Small Manufacturers*, published by the Small

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Piping Contractors Since 1858

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Business Administration. You can get copies from field offices of the SBA or the U.S. Department of Commerce.

Other good sources of information are the National Association of Manufacturers, the American Management Association and the National Industrial Conference Board. All of these have many publications on the subject of marketing and market research.

There is a wealth of material on market research available. Material that will help you, with very little expenditure of time and money, improve your new products program and sell more products. Once you have learned to substitute simple, familiar meanings for the technical terms that many of the writers use, you will find it interesting and very profitable reading.

America's Future Potential To Be Dramatized by "Americade"

(Continued from page 17)

pit of a space ship. A flight selector provides a choice of destinations, both astral and earth-bound, and when the viewer presses the button a series of animations and lighting effects are activated. Viewers will have a simulated trip through space from takeoff to landing.

The progress in the peacetime development of nuclear fission as a source of energy, expected to be in full flower by 1975, will be dealt with in an exhibit on energy.

A cubic-inch of Uranium 235 will be on exhibit and the power it will generate, in terms of every-day usage, will be given.

Keeping pace with the population of the country will be the need for the creation of new jobs. This subject will be presented through a job opportunities exhibit with a montage of workers in the background and scrambled signs which dissolve into clarity and proclaim the news that employees will benefit through the greater productivity which will come from population growth.

A special Hartford exhibit, showing the projections for 1975, will be a part of the show. This will be seen through the pages of an automatic book which will turn to give the glimpse into the future of the city.

After viewing these, and others, in this section of the exhibit, the visitors

will then proceed to displays providing an objective demonstration of what must be done, as a nation and individually to achieve the potential.

Voice messages throughout the exhibits give information about each.

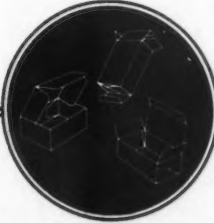
Research and invention, with working examples of machines which have provided greater production and new jobs will be treated in its proper perspective to the subject. How the living standards of America have been raised, and will continue to raise, through productivity, is another feature that will be on display.

Following the natural theme, there will be exhibits on profits, competition, cost of producing jobs and a visual demonstration of the services that are provided to America through industry.

In a "recapitulation area" the visitors may pause for a brief summary of the factors of reaching the vast potential that population growth offers. This area also has electronic devices to emphasize the points.

An area titled "The Future is Now" provides projections of inventions and developments already in the process of being perfected showing that some of the technological advances of the future are already well on the way to reality.

The Connecticut showing will be the New England premier and the second public appearance of Americade in the country; the first to be held in Syracuse. Plans have been made to handle large public groups as well as special showing for civic groups and school children.



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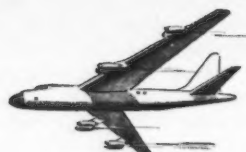
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Proof Presses, Balers, Cutters



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* * * * *

These are excellent qualities to look for, too, when you're deciding on your bank —

qualities you'll find here at The Connecticut Bank and Trust Company. You'll find our officers ready and able to sit down with you and tackle your present problems vigorously . . . and you'll find a farsightedness that can look far ahead with you to your future needs.

Whether you're concerned with the financial problems of a business, large or small, or whether your banking problems are mainly personal, banking with The Connecticut Bank and Trust Company will be a very satisfying experience for you.

THE CONNECTICUT BANK

AND TRUST COMPANY

21 offices in 13 Connecticut communities



TRANSPORTATION

By EDWARD M. MAMULSKI

Traffic Manager

Hearings for Cabinet Committee's Report

A HOUSE subcommittee on interstate and foreign commerce will meet during the recess of the Congress to hold a hearing on the much talked about Cabinet Committee's Report on Transport Policy and Organization Secretary Weeks will be the spokesman for the administration. Representative Harris of Arkansas, Chairman of this subcommittee, has invited representatives from the motor carriers, railroads, water carriers and freight forwarders to comment on this report. The purpose of this hearing is to find possible areas of agreement.

On many occasions, representatives of the motor carrier industry have highly denounced this report as being pro railroad. The railroad industry has vigorously supported the entire report. In spite of the increasing amount of freight made available as a result of greater productivity, the railroads are experiencing a percentage decline in the total amount of freight handled.

The recommendations of the Cabinet Committee were embodied in a bill No. H.R. 6141, which was introduced by Representative Priest of Tennessee, Chairman of the House Committee on interstate and foreign commerce, in the House, during the 1st session of the 84th Congress. An identical bill No. H.R. 6142 was also introduced in the House by Representative Wolverton of New Jersey.

The companion bill No. S 1920, was introduced in the Senate by Senators Magnuson of Washington and Bricker of Ohio, on behalf of the Administration. The Senate's subcommittee on surface transportation, which is a subcommittee of the Senate's committee on interstate and foreign commerce

will also conduct hearings on this bill. This subcommittee has not as yet, set a hearing date.

Carriers Seek Modification of Rate Scale

The Western Trunk Line and Southwestern rail carriers have petitioned the Interstate Commerce Commission for reopening, further hearings, reconsideration and modification of the Appendix 18 scale of rates as prescribed by the Commission in Docket No. 28300. This group of carriers contend that the investigation in this proceeding was limited to class rates alone, and that the Commission specifically excluded the issues of relating class rates to commodity and exception rates.

Since the present level of class rates has been in effect for over three years, the carriers now claim that they have new evidence which will show that the present level of class rates does not meet "accepted standards of reasonableness." They further contend that the Commission did not consider the impact of losses that result from use of the 28300 scale and that the Appendix 18 scale of class rates is unduly low for the longer distances which produces a rate far below the reasonable maximum level.

2,000 Pound Shipments in the South

The Southern Motor Carrier's Rate Conference comprised of about 475 motor common carriers, petitioned the Interstate Commerce Commission to investigate the class rates of motor common carriers operating within southern territory, on shipments weighing less than 2,000 pounds. "The Conference is seeking an order requiring



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2. And Now, Tool Steels
3. Up to 5" width strips of stainless steel or high and low carbon steels.

Cycle annealing of Laminations, Silicons, Irons

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SARGEANT & Wilbur
HEAT TREATING CORP.



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PAWTUCKET - RHODE ISLAND

* U. S. Air Force Certified

the establishment of a basis of class rates for a period of not less than 30 days, and that thereafter, any carrier might make such changes as it might find necessary or desirable, subject to the suspension power of the Commission."

The Conference reported that several motor common carriers, operating within southern territory refused to in-

crease their class rates to the level of rates published by the Conference in their class rate adjustment which became effective on July 11, 1955. Shortly after this class rate adjustment became effective, additional carriers "flagged out" for competitive reasons. The Conference also reported that 27% of the carriers who participated in one class rate tariff "flagged out."

These rates are patterned after the Appendix 18 scale of rates as prescribed by the Commission in Docket No. 28300. They are modified by an increase of 20 per cent, subject to a maximum of 23 cents per 100 pounds and subject to a general increase of 15 per cent. This class rate adjustment affects the following tariffs: MF-I.C.C. Nos. 611, 762, 658 and 689 and MF-I.C.C. No. 385 of the Motor Carriers' Tariff Association.

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THE METAL PRODUCTS SALES COMPANY

1249 FARMINGTON AVE., WEST HARTFORD 7, CONN.

Specialists in Selling to Industry

Europe's New Look

(Continued from page 19)

"The way to get ahead these days is to get into a war with the United States, and lose". One other wiser colleague added, however, "Yes, but suppose we would win!"

Another outstanding example of rapid industrial progress is Italy. This country also sustained severe war damage, and the program of rebuilding has been tremendous. But whereas the Germans have replaced their old boxlike buildings by new boxlike buildings, and the old hotels without baths by new hotels without baths, the Italians have done their rebuilding with much foresight and style. Traditionally a leader in architectural matters, Italy has outdone herself since World War II by erecting some of the most modern, beautiful and functional homes, office buildings, hotels and factories one can find anywhere in the world, including the United States. Italy is one of the few places in Europe today where the poor American tourist has a reasonable chance of getting a really modern bathroom along with his hotel room!

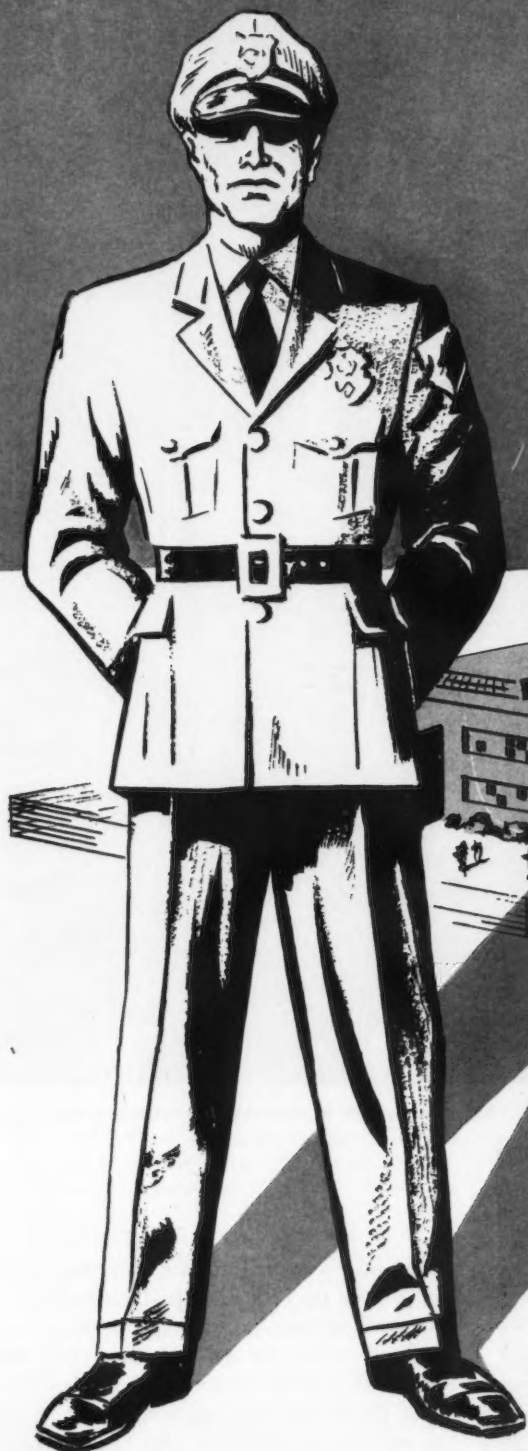
This feeling for the future has carried over also into Italian industry as pointed out earlier, and it is particularly evident that the progressive Italian industrialist today is as modern in outlook as are the buildings and homes in which he lives and works. Detailed studies of such subjects as quality control, management, scientific research and industrial engineering are considered by him to be all in a day's work.

From the strictly selfish American viewpoint, Italy has one other interesting feature, namely, the natural friendliness of her citizens for the average American. This is probably one reason why 1955 is such a boom year in Italy for United States tourists.

Only one disturbing cloud seems to

(Continued on page 55)

WHO GUARDS YOUR PLANT?



IS THERE A QUESTION IN YOUR MIND...

about the training, ability or efficiency of the watchmen and guards who protect your Plant? Let us explain how our service gives you truly Professional Plant Protection . . . saves you money . . . prevents losses . . . solves your Security problem. Your inquiry will be treated as confidential and imply no obligation. We are licensed by the Connecticut State Police, cleared, bonded and insured.

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Park River stayed away from our door



CONNECTICUT PRINTERS NIGHT OPERATIONS—1955 ▼

CASE, LOCKWOOD & BRAINARD DAY OPERATIONS—1936 ▲

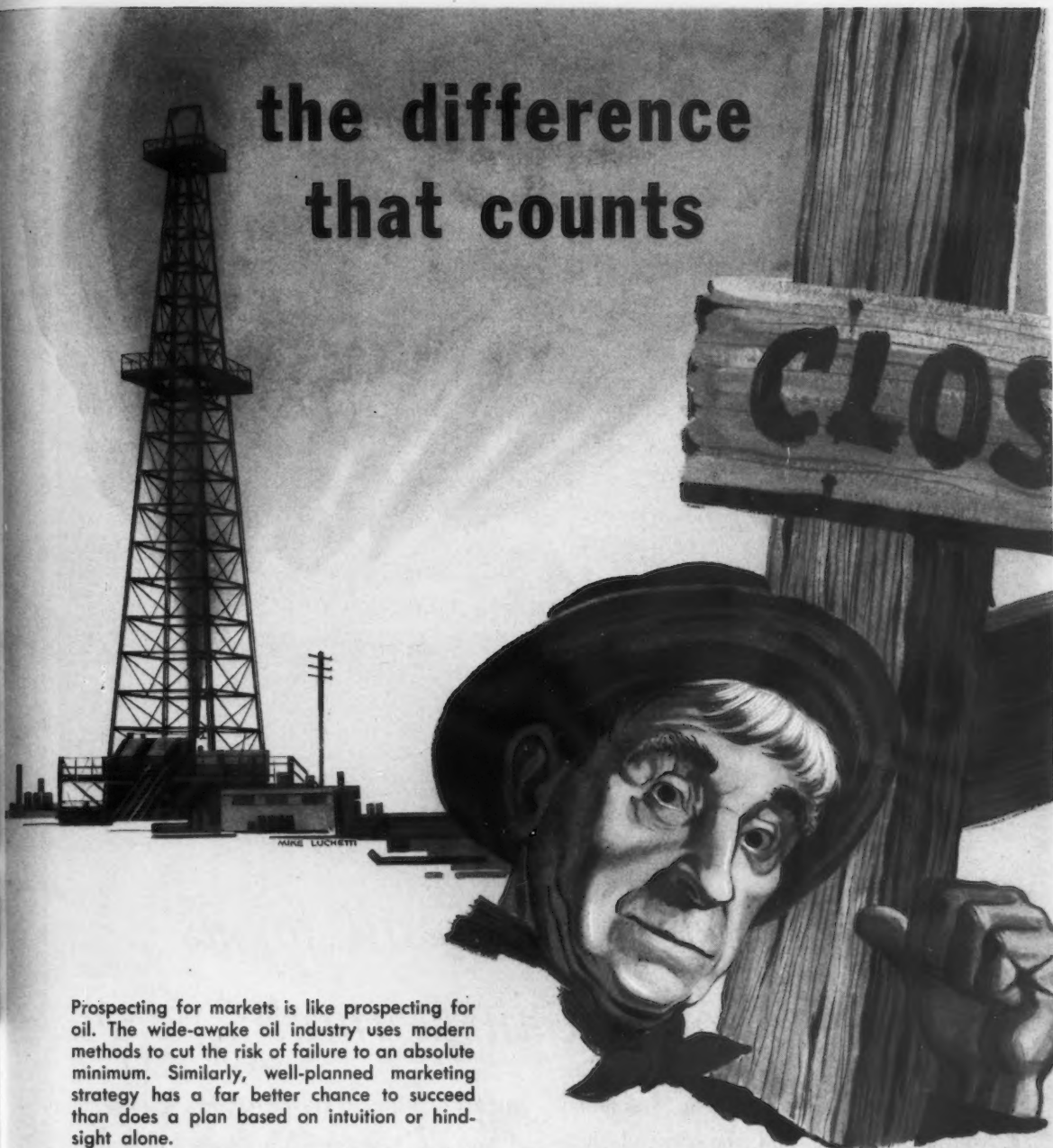


This time we were fortunate at Connecticut Printers. Back in the '30's the Park River paid our building a visit, but in the 1955 disaster we were spared, thanks to engineering foresight which put the Park River underneath the park instead of all over it. Having been spared, our facilities in both plants have been operating not only days but nights as well, to aid customers who had lost in the flood the printed matter which is such a necessary part of any business operation.

Connecticut Printers INCORPORATED

CASE, LOCKWOOD & BRAINARD, *Letterpress Division*
 KELLOGG & BULKELEY, *Lithographic Division*

the difference that counts



Prospecting for markets is like prospecting for oil. The wide-awake oil industry uses modern methods to cut the risk of failure to an absolute minimum. Similarly, well-planned marketing strategy has a far better chance to succeed than does a plan based on intuition or hindsight alone.

To increase sales, a comprehensive marketing plan is necessary. Here's the partial makings of a sound plan: market evaluation; distribution analysis; advertising based on research; coordinated sales promotion; systematic publicity activities; continual media comparisons. It adds up to one sum total—a plan based on the marketing abilities of an advertising agency with a complete service in marketing counsel.

Remsen is such an agency. Perhaps our approach to your marketing problems can be the difference that counts for you. Why not talk it over with us?

Remsen

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(Continued from page 50)

hang over Italy at the moment—the threat of Communism. The Communist party lost out by only a small margin in the recent Sicilian elections, and it is generally felt that if economic conditions should take a turn for the worse, they might have a chance to gain some real power, particularly in Southern Italy.

In France, changes in the industrial pattern seem to be much less pronounced than in many other countries.

This is partially a natural consequence of two things: (1) The average Frenchman is apt to be satisfied with the status quo; and (2) France sustained relatively few physical scars and thus has not had the stimulating effects of a construction boom.

France also seems hampered by the fact that so many of her industries are nationalized, and one out of seven workers, in effect, works for the government. The large number of political

parties, and a changing governmental administration, has not helped the over-all situation. However, she has many well-equipped industrial research laboratories, both in government and industry, indicating clearly a desire to improve her products by the application of science.

To the casual observer, France seems farthest behind in the field of merchandizing techniques. Even in Paris, the small shops do most of the business and the average housewife can shop at nothing even approaching a "supermarket, or a really well stocked "ten-cents" store. But these things do not appear to worry the average Frenchman, whose basic philosophy seems to be that he is satisfied with his way of life—and asks only to be allowed to enjoy it!

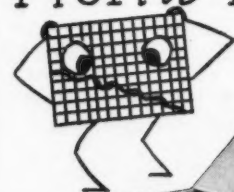
Belgium and Holland have both made remarkable recoveries since the war, and considering their relatively small populations, give plenty of evidence of constantly improving their already demonstrated capacities for turning out a wide variety of well designed products. The customs union between the three countries—Belgium, Netherlands and Luxembourg (Benelux) seems to be working well.

Austria has had the misfortune, not only to have sustained severe physical damage during the war, but to have missed many of the stimulating forces applied to some of the other countries during the occupation years. In analyzing Austria's present position, it must be kept in mind, too, that it is a nation which has been reduced, in the space of a little over a generation, from a proud empire to a bare remnant of only 3,500,000 people. It is therefore understandable that there is a tendency to live in the past. It is to be hoped that the independence gained on May 15, 1955 will mark the beginning of a new era for Austria. Certainly there is much evidence to point in this direction, when one sees the determination still possessed by many of her people, even after many years of almost total discouragement.

On the whole, the year 1955 is certainly the "best ever" for most of Europe, and has brought a tide of prosperity and productivity of which no one would have dreamed five short years ago. And with certain exceptions, a new rustle of interest in more efficient industrial techniques—the industrial "new look"—seems to portend even greater accomplishments in the years just ahead.

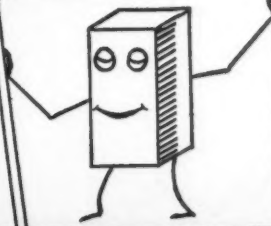
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BUSINESS PATTERN

A comprehensive summary of the ups and downs of industrial activity in Connecticut for the thirty day period ending on the 15th day of the second previous month.

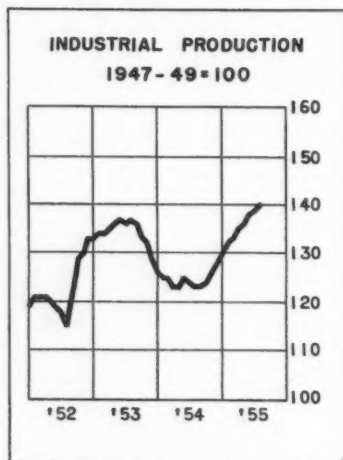
Business Remains Good This Summer

BUSINESS activity in Connecticut remained unchanged at an estimated 21 per cent above normal in July. The cotton activity and freight shipments components of the index have made noticeable gains in recent months with employment showing slight but steady improvement since December.

The revised United States index of industrial activity declined fractionally in July after ten successive monthly increases. This decline was not significant, however since it resulted largely from a strike in steel which lasted only a few days and from one in copper which seems on the verge of settlement.

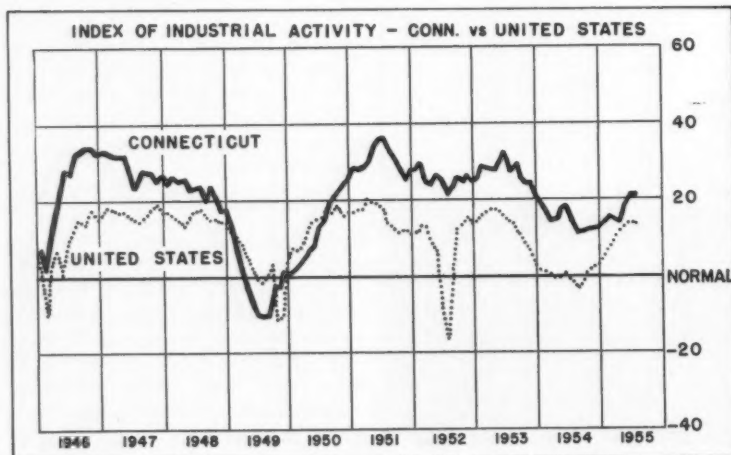
Industrial Production

Industrial production, a National index of the physical volume of output of factories and mines, reached a new all-time peak in July at 140 (1947-49 = 100). The former high of 137 was recorded in mid-1953. This is the



eleventh consecutive monthly increase during which time the index has advanced a total of 17 points.

The durable goods industries have spearheaded the current rise just as they were the main factor in the 1953-



1954 decline. The increase in production has now spread to most of the principal industries after being led at first by automobiles and steel.

Cotton Improves

Connecticut cotton mill activity, as measured by hours of spindle activity and bales consumed, improved during the first half of 1955 after declining rapidly from early 1953 through 1954.

The long range view, however, is clouded with the continued threat of competition from Southern mills which have the advantage of lower labor costs.

Gross National Product

Gross national product rose to a new high of \$385 billion (annual rate) in the second quarter of 1955. This represents a gain of \$29 billion during the present business up-swing.

Employment

As shown by the following table, the Hartford labor market area leads in number of manufacturing employees. Over the past five years, however, the increase in Hartford is slightly below that of Bridgeport, both numerically and percentage-wise.

The principal reason for the smaller gain in New Britain is that a strike in the electrical equipment industry has idled approximately 1,500 workers during recent weeks.

Manufacturing Employment

Area	July 1950	July 1955	% Incr.
Connecticut	361,000	406,900	13
Bridgeport	55,300	68,300	24
Hartford	61,600	74,300	21
New Britain	25,500	26,000	2
New Haven	40,800	45,400	11
Waterbury	39,000	41,600	7

Bank Debits

The level of bank debits to demand deposits, an indicator of the extent to which depositors use their checking accounts, has risen steadily in Connecticut. Included are debits to accounts of individuals, corporations, partnerships and state and political subdivisions.

Hartford leads with approximately three times the New Haven total. Location of the State government and heavy concentration of insurance and manufacturing are the primary reasons for the large difference. The consistent increase in each of these four major Connecticut cities reflects a growing State economy.

ACCOUNTING HINTS

Contributed by the Hartford Chapter National Association of Cost Accountants to stimulate the use of better accounting techniques in industry.

Why Office Automation?

IMPROVING the office employee's lot by providing him with high-speed tools and improving management's position when it comes to decision-making is really what office automation is all about," says Thomas J. Watson, Jr., 41-year old president of International Business Machines Corporation. "Our goal is to produce machines that will achieve these ends," he adds.

Electronic machines are the tools of office automation—the tools that ease the burden for employees by taking over the dull, repetitive tasks. At the same time, however, they impose the need for creative thinking about new ways of using them. For an important thing to keep in mind about electronic machines is this: an independent machine will never be built. There will always be human beings involved wherever there's a machine.

Take the so-called giant brains, the huge electronic calculators. Human beings thought of them in the first place. Human beings are designing them, building them, testing them, selling them, servicing them, and devising innumerable uses for them. Human beings must tell these machines exactly what to do and when to do it; without step-by-step instructions, the electronic brain is absolutely useless. The fastest, most spectacular of them is really not a brain, for it cannot create.

These electronic machines are lightning-fast calculators, computers, if you will. They add, multiply, subtract, divide, compare, differentiate, integrate at incomprehensible speeds. Speed is their stock in trade. But they do more than compute.

Their second great feature is "memory," the ability to store thousands of numbers, letters, symbols or words.

These numerical or alphabetic characters may represent names, dates, wage rates, job numbers, unit costs, guided missile velocities, temperatures, utility rates, production quotas, carpet dimensions, number of "widgets" in inventory, credit ratings, or just about anything else.

So today's electronic machine is less than a "brain," more than a computer. It's a data processing machine. It's an entire system, with input equipment, several types of memory devices, a computing unit, and output equipment. It's a collection of machines designed to process business or scientific data.

The first few months of 1955 brought two important additions to data processing machines. First came the transistorized electronic computer. While smaller in physical size, it has greater capacity and speed. An important new development—transistors—

(Continued on page 76)



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When you pay freight bills through us you eliminate costly checkwriting . . . eliminate check reconciliation . . . save postage . . . simplify accounting . . . simplify error correction . . . and reduce the need for petty cash.

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BUSINESS TIPS

from

School of Business Administration

University of Connecticut

Automation - A Report From England

A RECENT conference, sponsored by the Institution of Production Engineers, revealed to the world the great interest that exists in British industry in the subject of automation. Perhaps the most significant feature of the conference was the awareness, of nearly all those who participated, of the economic and sociological aspects of the changes associated with the application of automation. Most of the papers presented made some reference to problems in these areas.

Application of Automation

One case study described the application of automatic control to the weighing and mixing of raw materials. This is achieved by the use of a formula template from which orders are electrically transmitted to the scales, hoppers, worm conveyors, etc. Any predetermined number of batches can be made up to the same formula. The advantages of this system are the elimination of human errors in the composition of materials sent for processing, safeguarding of secret formulae, and improvement of plant working conditions.

A report from the automobile industry described rotary-table machines where the components are moved in a horizontal direction on a horizontal plane; drum transfer machines where circular movement occurs on a vertical plane and transfer machines where movement is linear. These machines are primarily constructed at Renault. They consist of units fitted as required with multiheads, bush plates for drills and reamers, tool holders and auto-

matic transfer mechanisms. While the cost of these machines restricts their use to mass production plants, on a unit output basis, they are no more expensive than standard equipment. For example, in a department of the Renault Company employing 3,400 people making mechanical parts for 4 h.p. cars, the maintenance team consists of 133 people of whom 30 are assigned to 200 special machines. To obtain equivalent production would re-

quire 1,000 standard machines and a maintenance staff of 170 men.

Developments in automatic machinery of great interest to small manufacturers were presented. The most interesting was that of computer-controlled machine tools. The method comprises the use of a digital computer which can be instructed to perform a sequence of movements and given dimensions of the points of change by means of punched teleprinter tape. The computer records the required track of the tool on magnetic tape at a speed sufficiently high to enable 50 machines to be controlled by one computer. The tape is then used to control the machine tool by means of highly accurate servo-mechanisms. By these methods a three-dimensional cam for a turbine blade miller, requiring three weeks to make by present methods, can be planned, computed and machined in four hours. The two halves of a milled block waveguide structure of light alloy can be made in 40 minutes instead of two weeks.

If small firms find the cost of the computer prohibitive, contract computing centers could be established to

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TO SOUND MANAGEMENT."

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STAMFORD, CONNECTICUT

* This month's contribution was made by A. D. Joseph Emerzian, Ass't Professor Dept. of Industrial Administration, The University of Connecticut

which the firms can send their planning sheets and receive in return magnetic control tapes.

Automation as applied to inspection activities was also discussed. Rejects, due to a gradual accumulation of errors, was considered the most promising area for automatic inspection devices. Here, information abstracted from automatic inspection devices can be used to control the product by direct correction. These instruments are capable of calculating numbers and of remembering and forgetting information received. They eliminate the human errors in manual inspection and tend to reduce dimensional variability in the product.

Social Consequences

In general the feeling was that the rate at which automation would be introduced reduced the possibility of its creating unmanageable problems. There exists a fear of higher overhead costs, but the major impediment is the shortage of engineers and scientists to design automatic plants and of technicians and skilled craftsmen for setting them up and maintaining them. The problem of education also applies to management which must be capable of co-ordinating the great variety of expert knowledge that must be utilized if automatically controlled processes are to be effectively used.

The British trade unions have not opposed developments in automation, because they feel that a larger gross national product will mean higher wages for them. This, of course, is their current position under conditions of full employment when union cooperation is maximized.

The general view that emerged from the conference was that the shortage of trained staff was likely to keep the development of automation at a pace at which it could be economically and sociologically absorbed. Unemployment would not be a serious problem because new skills would replace the old and new industries servicing personal consumption and leisure would grow as national income increased. Also, more rapid data processing would enable the government to take action more quickly to avert economic crisis. However, emphasis was placed upon the tensions that would be created by differences in the length of work weeks and remuneration between industries in which automation was applicable and those in which it could not be applied.

The Flood

(Continued from page 16)

moved up state and made rescues. Military and civilian helicopters from Connecticut and far away points wind-milled low, picking people from roof tops. Heroism was taken for granted."

And the heroics were not confined to the many brave whirlybird crews. They were young men in the National Guard, policemen and firemen, and just plain Joe Citizens who threw caution to the winds to save babies, small children, old people, the crippled and the sick. It was a day when fear-cringed people were given hope of a new and better day by men who had the courage and the faith to perform daring and unselfish deeds.

Aftermath and Rehabilitation

Then came Saturday. The rivers and streams shrank as they delivered their loads into the salt waters of Long Island Sound. The sun came out. Stunned citizens in the hard hit towns walked about—some dazed—scarcely able to grasp the reality of the destruction that met their eyes. They were living again as in primitive days without benefit of telephones, gas or electric stoves or refrigeration. There was no water safe to drink without boiling, little food for adults or milk for the babies, except the small amount that had trickled in with the Red Cross that had opened headquarters before the flood subsided. Thousands no longer had a home fit to live in; others no home at all; and many a homeowners' real estate was now silt washing downstream to be shoveled up later from some street, factory yard or floor. The sun was shining, but the day was dark for those who had lost children, relatives, friends, their homes or found their places of business heavily damaged. It was dark, too, for the officials and peoples of the affected communities as they thought of the Herculean task of the clean-up and rebuilding operations.

Then came help. More helicopters with supplies. Army trucks with National Guardsmen to lend a hand, prevent looting and restore order. The Red Cross with the aid of town officials and churchmen found more and more sleeping and dining facilities in schools, churches and other buildings left untouched by the flood. Disinfectants, food, drinking water, electric generators, medicinal supplies and clothing began to arrive in increasing quantities as the hours wore on through Sun-

day and Monday. Soon emergency telephone service was set up by hard working telephone crews of the Southern New England Telephone Company in Winsted, Torrington and the Naugatuck River towns, Bristol and in Putnam and other eastern Connecticut areas. At first only a few emergency calls for doctors and emergency help were permitted, but within a week most communication lines, at least to business establishments, were functioning at a near-normal pace.

Meanwhile, those concerned with the main sources of livelihood of the people in the hard hit industrial towns wasted little or no time day-dreaming. Emergency meetings were held by the management and supervisors to organize the clean-up. In one way or another ways were found to order necessary supplies such as heavy boots, gloves, raincoats, suits and hats, generators, electric hand lamps, shovels, pails, disinfectants, buckets and brooms—all new tools for most of the employees in the clean-up brigade. Dispensaries in some of the larger plants doled out typhoid shots to the workers and those in smaller plants got those shots quickly from local health authorities and family doctors. Portable generators and trucks, scoops, bulldozers, pay-loaders and mobile cranes were found and often delivered quickly to the larger companies with many customer and supplier contacts throughout the country.

In one case brought to our attention, heavy boots, gloves and other necessary supplies were available as early as 8:30 a.m. on Saturday morning following the Friday peak of the flood. Workmen got their shots and went to work. More came to work later as the tools were available. By Sunday work was in process cleaning up and reconditioning parts. Shipments were made to customers within the week. This was done at Farrel-Birmingham's plants in Ansonia and Derby, hard hit with damages estimated at \$1,000,000, without counting lost production time (see flood and after flood photos of erection plant in this article).

Numerous other stories of quick recovery have also trickled in. Space will only permit telling of one word of mouth story of a lower Naugatuck Valley Company that started footings for a new factory on higher ground before the flood had subsided. It was reported to be starting operations under a tent within 10 days after the flood had destroyed its factory, planning to con-



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FATAL ACCIDENTS



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2 BILLION MILE ACCIDENT STUDY IN NORTH CAROLINA PROVES CONCRETE IS SAFER

An analysis of official 1953 North Carolina highway accident records shows conclusively that the type of pavement affects accidents. Covering more than two billion miles of travel and 6000 accidents on the state's heavily traveled roads, the study included 433 miles of concrete and 1152 miles of the other most commonly built pavement.

The results prove that concrete is far safer. *For equal vehicle miles* the other pavement accounted for:

- 24% more accidents
- 32% more fatal accidents
- 22% more property damage
- 67% more accidents due to skidding
- 18% more accidents on dry roads
- 46% more accidents on wet roads
- 23% more daytime accidents
- 29% more nighttime accidents

Safety is built into concrete with a gritty, highly skid-resistant surface. When wet it retains $\frac{3}{4}$, the other pavement only $\frac{1}{2}$, of its dry coefficient of friction at 40 mph.

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tinued until its new plant is completed late this fall. Once again the old Yankee ingenuity and sheer courage in the face of seemingly insurmountable hardship has shown capabilities that are engendering renewed faith within the state and respect outside its borders.

As a notable aftermath of the flood, President Eisenhower, in response to Governor Ribicoff's appeal, made a personal flight over flood stricken Connecticut the week following the flood. His flight observations and subsequent consultation with the Governor, Senator Bush and other state, federal, army and Red Cross officials, caused him to make a nation-wide appeal for emergency Red Cross funds to help reduce the distress. Likewise he loosened the purse strings of the federal government to help rebuild roads and bridges. He also alerted other governmental bureaus such as the FHA, the Department of Commerce, the Office of Defense Mobilization and the Small Business Administration. The SBA set up emergency offices in Torrington, Waterbury and Putnam in addition to expanding staff at its Hartford office in order to serve the thousands of individuals and companies who were expected to apply for loans to help repair damages to homes, business or industrial properties or to replenish inventories and supply some working capital. Representatives of the other organizations alerted also became active in the area, sometimes working alone and sometimes with the State Development Commission and Labor Departments who were activated at flood peak to assist industry and business with their clean-up and other rehabilitation problems.

Mac Assistance Program

Realizing the gravity of the flood situation for industry, the Association prepared a two-part questionnaire over the week-end following the Friday flood with a view of discovering the emergency needs of its members hit by the flood and the offers of quick assistance that could be secured from undamaged members. The questionnaire was mailed Monday, August 22 and by Tuesday after luncheon, some 18 offers of assistance had been phoned in. The first flood assistance bulletin was mailed that day. It told how to apply for disaster loans and listed the items of assistance thus far received. They ran the gamut from offers to dry out motors and soggy records to boilers,

generator sets, smoke stacks, rental space, to rust removing and sub-contracting facilities and offerings of motors and hot rolled steel.

As assistance offers poured in each day they were listed by types in bulletins on Wednesday, Thursday and Friday of the week following the flood and on Monday, August 29th. The types listed included: Reconditioning services, machinery and equipment; factory space, materials, sub-contracting facilities, personnel services wanted, transportation and disaster loans. Each item under these headings was briefly described, ending with the name and address of the company offering the assistance and the name and telephone number of the man to contact in the company. By listing in this manner, it was possible for contacts to be made direct by those in need of assistance.

Besides listing these offerings in bulletins for five consecutive days, during which more than 300 companies offered help of one kind or another, the service was publicized in the press and over radio and TV newscasts, thus getting the news to towns without mail and telephone service during the first crucial days following the flood. When the supply of previous offerings had far exceeded any possible demand, according to reports received from two staff representatives who had been in the field calling on members in the hardest hit towns, our disaster relief bulletins listing services available were discontinued with our August 29th bulletin. Members were advised that MAC would continue to process requests for special assistance required by flood stricken companies. These special requests kept MAC trunk lines busy during the week following the flood, but have dropped to a trickle since September 5, despite repeated offers of the service made by our field representatives.

Scope of Assistance

Beginning with individual company efforts to organize their own management and employees teams for self-help and the organization of community committees of business men and town officials to survey emergency needs and press rapidly for their solution, the organizational structure continued to mushroom so rapidly that Governor Ribicoff very wisely appointed an overall Connecticut Flood Recovery Committee made up of 19 leaders of representative business and

social groups in the state. Naming Sherman R. Knapp as the Committee's chairman, the Governor called the first meeting which was held in his office Wednesday August 31. He outlined some 14 important problems running the gamut from emergency problems of individuals to long range planning for communities and the state. The \$64 questions apparent in each one of the problems posed were: Who would do the jobs either in whole or in part? Who would furnish the money or credit-the federal, state or local governments, the Red Cross or private charitable groups? How should the money be raised where decision was made that financing must come from state or community resources?

Important too, loomed the desperate need to work out an agenda for a special session of the General Assembly which would enable the necessary reconstruction aid to go forward without cutting knots of red tape at every turn. As a start toward efficient operation it was decided that the work of the general committee would be undertaken by sub-committees as follows: 1) aid to towns 2) housing 3) aid to flood victims 4) reconstruction program 5) legislation.

The Association is well represented in the general committee by Sherman R. Knapp, its chairman, and John A. Coe, Jr., MAC directors, and Norris W. Ford, executive vice president. Mr. Coe, president of hard-hit American Brass Co., serves on the Reconstruction Planning sub-committee and Mr. Ford on the Aid to Flood Victims and Legislation sub-committees. The second meeting of the general committee was held at the Connecticut Light and Power Company offices that have been selected as permanent headquarters on Friday, September 9. Work of the sub-committees is being rapidly organized so that recommendations can be made at the earliest possible time for discussion, possible modification and acceptance in order that a well-rounded agenda may be presented to the special session of the General Assembly to be called soon by Governor Ribicoff.

Meanwhile, the Red Cross goes on aiding business men and individuals with no-strings-attached-funds upon reasonable proof that they are needed to get a home, furniture, store fixtures or inventory and are not available from the assets of the individual or small businesses or from other sources. Over \$400,000 are reported to have

been spent up through the first week of September, with the likelihood that well over \$4 million will be spent for flood relief by the Red Cross in Connecticut alone. SBA has approved over 200 loans and army engineers are busily at work supervising clean-up and repair operations to roads, bridges and rivers and aiding with planning for flood control in the future.

Some four field offices plus Hartford headquarters house state agencies, such as the Labor Department, Development Commission, concerned with the problems of business and industry. They are taking inventory of estimated damages on a personal interview basis, aiding with clean-up operations, finding vacant buildings and sites for relocation, following through on financial matters and stimulating the inauguration of sensible community planning in the hope that Connecticut's disaster-hit areas may rebuild better than before.

Greatest Immediate Problems of Business and Industry

Although all but an estimated 20,000 of the approximately 70,000 persons idled by the flood are reported back at work, the picture is not as rosy as these figures would indicate. Many of these employees are working on clean-up operations and preparing shipments from undamaged or reconditioned inventory. But when that work is complete, many may be laid off unless finances are guaranteed so that production machinery and plant can be acquired quickly. This financing of reconstruction and replacement is industry's biggest problem, as indicated by reports of field men from the Development Commission and MAC. No real planning can be done by industrial management until they know where funds are coming from. Many have no available funds they can tap and must await the all-too-slow action of SBA, which now takes weeks when the present emergency demands action in days.

In a number of instances some of the smaller industries and mercantile establishments were so hard hit financially by the flood that they cannot even meet small reconstruction costs, nor will their credit structure pass muster with any loan agency. Unless long term loans, without interest, or outright grants are given by the Red Cross or other private agencies, it is doubtful that some of them can reestablish their operations.

The expediting of Army Engineering work involving private industry and business property is also needed to speed the repair of dams, bridges and roads. Although these dams, bridges and roads leading to industrial and business places of employment are privately owned, their repair is invested with the public interest. Unless such repairs, which are many times beyond the means of the owner, can be made quickly, the affected industries cannot start operations or at best can furnish very limited employment until these repairs are made.

Conclusion

The flood destroyer has come and gone, snuffing out what may yet mount to a total of 100 lives lost when the final story is told, and what may cost \$200 million counting reconstruction costs and loss of business, even though present estimates of total rehabilitation are less than this total. As of September 8 the Development Commission reports losses to 482 industrial companies in 43 towns of \$72,515,600.

Despite the admirable spirit briskly fanned by the constant encouragement of Governor Ribicoff and the prodigious round-the-clock labors that started operations in many flood struck plants within a matter of days, and for the most in a few weeks, the biggest and the knottiest problems of long range planning, financing and reconstruction lie ahead. No more heroics are headlined in the press to stir enthusiasm for a long-term program of

cheerless effort. No company would want to be labeled as a quitter by leaving the state during the immediate aftermath of the flood. But how about the companies unable to get assistance to get started again for two, three, four or six months? Will they listen to the siren song of tax free offers and financial assistance from some of our southern neighbors? Some of these neighbors are even now expressing their sorrow over losses to flooded-out companies, and as they say, merely calling attention to the advantages of alleged lower cost operations in the south. The time of danger is in the next few months when discouragement with slow progress may set in around a management table here and there. The siren call to greener pastures is most fetching then.

Flood and hurricane disasters have hit Connecticut before. Always she has come back to win new laurels in the industrial world.

To be sure, she paid a heavy price, as always, when costly disaster strikes. With her present spirit she will pay the price and stage an even better repeat performance in reconstruction of improved plant and facilities better geared to modern needs. Thus the human race has carried on for centuries, building and rebuilding, on a scale ever more ambitious to satisfy its appetite for better things for more people. How can Connecticut, the incubator and developer of mass production that gave the recipe to the world for the asking, do less?

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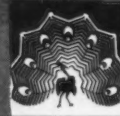
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IT'S MADE IN CONNECTICUT

EDITOR'S NOTE: This department, giving a partial list of peace-time products manufactured in Connecticut by company, seeks to facilitate contacts between prospective purchasers in domestic or foreign markets and producers. It includes only those listings purchased by Connecticut manufacturers. Interested buyers may secure further information by writing this department. Connecticut manufacturers desiring to list their products in this department should write the Editor for listing rates.

(Advertisement)

Accounting Forms		Aluminum Ingots		Bathroom Accessories	
Baker-Goodyear Co The	New Haven	Lapides Metals Corp	New Haven	Autoyre Company The	Oakville
Accounting Machines		Aluminum Lasts		Charles Parker Co The	Meriden
Underwood Corporation	Bridgeport	United States Rubber Company Shoe Hardware Division	Waterbury	Batteries	
Adding Machines		Aluminum-Sheets & Coils		Electrical Div Olin Mathieson Chemical Corp (flashlight, radio, hearing aid and others)	
Underwood Corporation	Bridgeport	United Smelting & Aluminum Co Inc	New Haven		New Haven
Adhesives		Ammunition		Bearings	
Polymer Industries Inc	Springdale	Remington Arms Co Inc and Peters Cartridge Div	Bridgeport	Fafnir Bearing Co (ball)	New Britain
Advertising Mats		Anodizing		Marlin-Rockwell Corporation	Plainville
Lockwood Sons Inc Wm H	Hartford	Conn Metal Finishing Co	Hamden	New Departure Div of General Motors (ball)	
Advertising Plates		Leed Co The H A	Hamden	Norma-Hoffmann Bearings Corp (ball and roller)	Bristol
Lockwood Sons Inc Wm H	Hartford	Anodizing Equipment		Bellows	
Advertising Specialties		Conn Metalcraft Inc	New Haven	Bridgeport Thermostat Company Inc (metallic)	Bridgeport
H C Cook Co The 32 Beaver St	Ansonia	Asbestos		Bellows Assemblies	
Halco Co	New Haven	Auburn Manufacturing Company The (gaskets, packings, wicks)	Middletown	Bridgeport Thermostat Company Inc	Bridgeport
Aerosol Products		Asbestos & Rubber Packing		Bellows Shaft Seal Assemblies	
Bridgeport Brass Company	Bridgeport	Colt's Manufacturing Company	Hartford	Bridgeport Thermostat Company Inc	Bridgeport
Air Compressors		Asarcon Bronze		Bells	
Spencer Turbine Co The	Hartford	Knapp Foundry Company Inc (bushing & bearing stock)	Guilford	Bevin Brothers Mfg Co	East Hampton
Air-Conditioning		Assemblies-Small		Gong Bell Co The	East Hampton
Bush Manufacturing Co The	West Hartford	Barnes Co The Wallace Div Associated Spring Corp	Spring	N N Hill Brass Co The	East Hampton
Air Ducts		Greist Manufacturing Co The	New Haven	Belt Fasteners	
Wiremold Co The (Retractable)	Hartford	Humason Mfg Co The	Forestville	Saling Manufacturing Company (patented self-aligning)	Unionville
Air Heaters-Direct Fired		J H Sessions & Son	Bristol	Belting	
Peabody Engineering Corporation	Stamford	Auto Cable Housing		Hartford Belting Co	Hartford
Air Impellers		Wiremold Company The	Hartford	Russell Mfg Co The	Middletown
The Torrington Manufacturing Co	Torrington	Automatic Control Instruments		Bends-Pipe or Tube	
Aircraft		Bristol Co The (temperature, pressure, flow, humidity, time)	Waterbury	National Pipe Bending Co The	160 River St New Haven
Sikorsky Aircraft Division United Aircraft Corporation (helicopters)	Bridgeport	Automobile Accessories		Bicycle Coaster Brakes	
Aircraft Accessories		Kilbourn-Sauer Company (lights and other accessories)	Fairfield	New Departure Div General Motors Corp	Bristol
Chandler Evans Div Niles-Bement-Pond Co (Piston and Jet Engine Accessories-Carburetors, Fuel Controls, Afterburner Regulators, Pumps, Servomechanisms and Protek Plugs)	West Hartford	Automotive Bodies		Bicycle Sundries	
Fenn Mfg Co The (Hardened and Ground Gears assemblies)	Newington	Metropolitan Body Company	Bridgeport	New Departure Div General Motors Corp	Bristol
Gabb Special Products Div E Horton & Son Company (filler caps-pressure fuel servicing systems)	Windsor Locks	Automotive Parts		Binders Board	
Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment)	Windsor Locks	Eis Manufacturing Co (Hydraulic and Mechanical)	Middletown	Colonial Board Company	Manchester
Manning Maxwell & Moore Inc (aircraft pressure switches and jet engine afterburner control systems)	Stratford	Raybestos Division of Raybestos-Manhattan Inc (Brake Lining, Lined Brake Shoes, Clutch Facings, Automatic Transmission Parts, Fan Belts, Radiator Hose and Miscellaneous Rubber)	Bridgeport	Biological Products	
Russell Manufacturing Company The (CAA approved safety belts; webbing and hardware for safety belts; shock rings and shock cord; ring and cord hardware; webbing for all aircraft applications)	Middletown	Automotive & Service Station Equipment		Ernst Bischoff Company Inc	Ivoryton
Aircraft Instruments		Scovill Manufacturing Company (Canned Oil Dispensers)	Waterbury 91	Blackening Salts for Metals	
Gorn Electric Company Inc	Stamford	Automotive Tools		Enthone Inc	New Haven
Aircraft-Repair & Overhaul		Eis Manufacturing Company	Middletown	Mitchell-Bradford Chemical Co	Bridgeport
Airport Department Pratt & Whitney Aircraft Division	Rentschler Field East Hartford	Bags-Paper		Black Oxide Treatment	
Aircraft Sheet Metal Work		American Paper Goods Company The	Kensington	Bennett Metal Treating Co The	1045 New Britain Ave Elmwood
Aero Form Co	New Haven	Bakelite Moldings		Blades	
Aircraft Studs & Bolts		Watertown Mfg Co The	Watertown	Capewell Manufacturing Company Metal Saw Division (hack saw and band saw)	Hartford
Britton Mfg Co Inc The	Hartford	Balls		Blocks	
Aircraft Test Equipment		Abbott Ball Co The (steel bearing and burnishing)	Hartford	Howard Company (cupola fire clay)	New Haven
United Manufacturing Co Division of The W I Maxson Corp	Hamden	Hartford Steel Ball Co The (steel bearing and burnishing, brass, bronze, monel, stainless aluminum)	Hartford	Blower Fans	
Alumilite Aluminum Sheets		Killian Steel Ball Corp The	Hartford	Colonial Blower Company	Plainville
Leed Co The H A	Hamden	Banbury Mixers		Spencer Turbine Co The	Hartford
Aluminum Bronze Castings		Farrel-Birmingham Company Inc	Ansonia	Blower Systems	
Knapp Foundry Company Inc	Guilford	Barrels		Colonial Blower Company	Plainville
Aluminum Castings		Abbott Ball Co The (burnishing and tumbling)	Hartford	Ripley Co	Middletown
Consolidated Industries Inc	West Cheshire	Hartford-Steel Ball Co The (tumbling)	Hartford	Blueprints and Photostats	
Eastern Malleable Iron Company The	Naugatuck	Conn Metalcraft Inc	New Haven	Joseph Merritt & Co	Hartford
Newton-New Haven Co 688 Third Avenue	West Haven	Barrels-Tumbling		Boilers	
Charles Parker Company The	Meriden	Rolock Inc	Fairfield	Bigelow Co The	New Haven
Stamford Casting Company Inc (Aluminum, Magnesium and Bronze)	Stamford	Baskets-Wire		General Electric Company (Residential oil and gas fired steam and hot water)	Bridgeport
Aluminum Extrusions		Baskets-Wire		Bolts and Nuts	
Bridgeport Brass Company	Bridgeport	Baskets-Wire		Blake & Johnson Co The (nuts machine screw-bolts, stove)	Waterville
Aluminum Forgings		Baskets-Wire		Clark Brothers Bolt Co	Milldale
Bridgeport Brass Company	Bridgeport	Baskets-Wire		Bonderizing	
Consolidated Industries Inc	West Cheshire	Baskets-Wire		Clairglow Mfg Company	Portland (Advt.)
Scovill Manufacturing Company	Waterbury 91	Baskets-Wire			

I T ' S M A D E I N C O N N E C T I C U T

Bottle Openers	
Scovill Mfg Co (steel, anodized aluminum)	Waterbury
Box Board	
Federal Paper Board Co Inc	Montville, New Haven & Versailles
Box Board	
Lydall & Foulds Paper Co The	Manchester
Robertson Paper Box Co	Montville
Gair Company Inc Robert	Montville
New Haven Board and Carton Co The	New Haven
Boxes	
Claireglow Mfg Company (metal)	Portland
Connecticut Container Corporation	New Haven
Gair Company Inc Robert (corrugated and solid fibre shipping containers)	Portland
Merriam Mfg Co (steel cash, bond, security, fitted tool and tackle boxes)	Durham
Warner Bros Co The (Acetate, Paper, Acetate and Paper Combinations, Counter Display, Setup)	Bridgeport
Boxes and Crates	
City Lumber Co of Bridgeport Inc The	Bridgeport
Wallingford Planing Mill Co Inc	Yalesville
Boxes—Metal	
Merriam Mfg Co (Bond and Security, Cash and Utility, Personal Files and Drawer Safes)	Durham
Boxes—Paper—Folding	
Atlantic Carton Corp	Norwich
Bridgeport Paper Box Co	Bridgeport
Curtis & Sons Inc S	Sandy Hook
Folding Cartons Incorporated (paper, folding)	Versailles
Gair Company Inc Robert	Montville
H J Mills Inc	Bristol
Boxes—Paper—Folding	
National Folding Box Co Inc	New Haven and Versailles
New Haven Board and Carton Co The	New Haven
Robertson Paper Box Co	Montville
Warner Bros Co The	Bridgeport
Boxes—Paper—Setup	
Box Shop Inc The	New Haven
Bridgeport Paper Box Co	Bridgeport
Hemway Corporation The	Waterbury
H J Mills Inc	Bristol
Strouse Adler Company The	New Haven
Warner Bros Co The	Bridgeport
Brake Cables	
Eis Manufacturing Co	Middletown
Brake Linings	
Raybestos Division of Raybestos-Manhattan Inc (Automotive and Industrial)	Bridgeport
Russell Mfg Co The	Middletown
Brake Service Parts	
Eis Manufacturing Co	Middletown
Braid—Elastic & Non-elastic	
Essex Mills Inc	Essex
Brass & Bronze	
American Brass Co The (sheet, wire, rods, tubes)	Waterbury
Bridgeport Brass Company (sheet, rod, wire and tubing)	Bridgeport
Bristol Brass Corp The (sheet, wire, rods)	Bristol
Chase Brass & Copper Co	Waterbury
Miller Company The (phosphor bronze and brass in sheets, strips, rolls)	Meriden
Plume & Atwood Mfg Co The (sheet, wire, rod)	Thomaston
Scovill Manufacturing Company	Waterbury 91
Seymour Mfg Co The (strip, sheet & wire)	Seymour
Tinsheet Metals Co The (sheets and rolls)	Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp (sheet, strip)	New Haven
Brass & Bronze Ingot Metal	
Mitchell Smelting & Refining Co Inc	Botsford
Plume & Atwood Mfg Co The	Thomaston
Whipple and Choate Company The	Bridgeport
Brass, Bronze, Aluminum Castings	
Charles Parker Company The	Meriden
Stamford Casting Company Inc	Stamford
Victors Brass Foundry Inc	Guilford
Brass Goods	
American Brass Company The	Waterbury
Plume & Atwood Mfg Co The (to order)	Waterbury
Rostand Mfg Co The (Ecclesiastical Brass Ware)	Milford
Scovill Manufacturing Company (to order)	Waterbury 91
Western Brass Mills Div Olin Mathieson Chemical Corp	New Haven
Brass Mill Products	
American Brass Company The	Waterbury
Bridgeport Brass Co	Bridgeport
Chase Brass & Copper Co	Waterbury
Plume & Atwood Mfg Co The	Thomaston
Scovill Manufacturing Company	Waterbury 91
Western Brass Mills Div Olin Mathieson Chemical Corp	New Haven
Brick-Building	
Donnelly Brick Co The	New Britain
Bricks—Fire	
Howard Company	New Haven
Mullite Refractories Co The	Shelton
Bright Wire Goods	
Sargent & Company (Screw Eyes, Screw Hooks, Cup Hooks, Hooks and Eyes, C H Hooks)	New Haven
Broaching	
Hartford Special Machinery Co The	Hartford
Bronze & Aluminum Castings	
Charles Parker Co	Meriden
Knapp Foundry Company Inc (rough or machined)	Guilford
Brooms—Brushes	
Fuller Brush Co The	Hartford
Brushes	
Moran Brush Mfg Co Inc	Hamden
Buckles	
B Schwanda & Sons	Staffordville
G E Prentice Mfg Co The	Kensington
Hawie Mfg Co The	Bridgeport
North & Judd Manufacturing Co	New Britain
Patent Button Co The	Waterbury
Ridgdon Manufacturing Co John M Russell Div	Naugatuck
United States Rubber Company Shoe Hardware Division	Waterbury
Buffing & Polishing Compositions	
Apothecaries Hall Co	Waterbury
Lea Mfg Co	Waterbury
Burners	
Plume & Atwood Mfg Co The (kerosene oil lighting)	Thomaston
Burners—Automatic	
Peabody Engineering Corporation	Stamford
Burners—Coal and Oil	
Peabody Engineering Corporation (Combined)	Stamford
Burners—Gas	
Peabody Engineering Corporation (Blast Furnace)	Stamford
Burners—Gas and Oil	
Peabody Engineering Corporation (Combined)	Stamford
Burners—Refinery	
Peabody Engineering Corporation (For Gas and Oil)	Stamford
Burnishing	
Abbott Ball Co The (Burnishing Barrells and Burnishing Media)	Hartford
Burs	
Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford
Busways	
Distribution Assemblies Department, General Electric Co	Plainville
Buttons	
B Schwanda & Sons	Staffordville
Frank Parizek Manufacturing Co The	Putnam
Patent Button Co The	Waterbury
Scovill Manufacturing Company (Uniform and Tack Fasteners)	Waterbury 91
Waterbury Companies Inc (Uniform and Fancy Dress)	Waterbury
Cabinets	
Charles Parker Co The (medicine)	Meriden
Cabinet Work	
Hartford Builders Finish Co	Hartford
Cable—Asbestos Insulated	
Rockbestos Products Corp	New Haven
Cable—BX Armored	
General Electric Company	Bridgeport
Cable—Nonmetallic Sheathed	
General Electric Company	Bridgeport
Cable—Service Entrance	
General Electric Company	Bridgeport
Cages	
Andrew B Hendryx Co The (bird and animal)	New Haven
Cams	
American Cam Company Inc	Hartford
Hartford Special Machinery Co The	Hartford
Rowbottom Machine Company Inc	Waterbury
Canvas Products	
F B Skiff Inc	Hartford
Capacitors	
Electro Motive Mfg Co Inc The (mica & trimmer)	Willimantic
Carbide Tools	
Precision Tool & Die Co	Waterbury
Card Clothing	
Standard Card Clothing Co The (for textile mills)	Stafford Springs
Carpenter's Tools	
Sargent & Company (Planes, Squares, Plumb Bobs, Bench Screws, Clamps and Saw Vices)	New Haven
Carpet	
B F Goodrich Sponge Products Division	Shelton
Carpet Cushion	
B F Goodrich Sponge Products Division	Shelton
Carpets and Rugs	
Bigelow-Sanford Carpet Co	Thompsonville
Casters	
Bassick Company The (Industrial and General)	Bridgeport
Casters—Industrial	
George P Clark Co	Windsor Locks
Castings	
Connecticut Foundry Co (grey iron)	Rocky Hill
Connecticut Malleable Castings Co (malleable iron castings)	New Haven
Consolidated Industries Inc	West Cheshire
Charles Parker Company The (brass, bronze, aluminum)	Meriden
Ductile Iron Foundry Inc	Stratford
Eastern Malleable Iron Company The (malleable iron, metal and alloy)	Naugatuck
Farrel-Birmingham Company Inc (Meehanite, Nodular, Iron, Steel)	Ansonia
Hartford Electric Steel Corp The (stainless steel)	Hartford
Plainville Casting Company (gray, alloy and high tensile irons)	Plainville
Malleable Iron Fittings Co (malleable iron and steel)	Stamford
McLagon Foundry Co (grey iron)	New Haven
Newton-New Haven Co (zinc and aluminum)	New Haven
688 Third Ave West Haven	West Haven
Phillbrick-Booth & Spencer Inc (grey iron)	Hartford
Producto Machine Company The	Bridgeport
Scovill Manufacturing Company (Brass & Bronze)	Waterbury 91
Stamford Casting Company Inc (Aluminum, Magnesium and Bronze)	Stamford
Turner & Seymour Mfg Co The (gray iron, semi steel and alloy)	Torrington
Union Mfg Co (grey iron & semi steel)	New Britain
Waterbury Foundry Company The (highway & sash weights)	Waterbury
Wilcox-Crittenden Div North & Judd Mfg Co (gray iron and brass)	Middletown
Castings—Investment	
Arwood Precision Casting Corp	Groton
Cements—Refractory	
Mullite Refractory Co The	Shelton
Chain	
Ridson Manufacturing Co John M Russell Div	Naugatuck
Turner and Seymour Mfg Co The (weldless, sash, jack, safety, furnace, universal, lion and cable)	Torrington
Chain—Power Transmission and Conveying	
Whitney Chain Company	Hartford
Chain—Bead	
Auto-Swage Products Inc	Shelton
Bead Chain Mfg Co The	Bridgeport
Chairs	
The Hitchcock Chair Company	Riverton
Chemical Manufacturing	
Carwin Company The	North Haven (Adv.)

IT'S MADE IN CONNECTICUT

Chemicals	
American Cyanamid Company	Waterbury
Apothecaries Hall Co	Waterbury
Carwin Company The	North Haven
Du-Lite Chemical Corp The	Middletown
Macalaster Bicknell Company	New Haven
MacDermid Incorporated	Waterbury
Naugatuck Chemical Division	United States
Rubber Co	Naugatuck
New England Lime Company	Canaan
Pfizer & Co Inc Chas	Groton
Chemicals—Agriculture	
Naugatuck Chemical Division	United States
Rubber Co (insecticides, fungicides, weed killers)	Naugatuck
Christmas Light Clips	
Foursome Manufacturing Co	Bristol
Chromium Plating	
Chromium Corp of America	Waterbury
Chromium Process Company The	Shelton
City Plating Works Inc	Bridgeport
Chucks	
Cushman Chuck Co The	Hartford
Horton Chuck Div The E Horton & Son Company	Windsor Locks
Jacobs Manufacturing Co The	West Hartford
Union Manufacturing Company	New Britain
Chucks—Drill	
Jacobs Manufacturing Co The	West Hartford
Chucks & Face Plate Jaws	
Cushman Chuck Co The	Hartford
Union Mfg Co	New Britain
Horton Chuck Div The E Horton & Son Company	Windsor Locks
Chucks—Power Operated	
Cushman Chuck Co The	Hartford
Union Manufacturing Company	New Britain
Circuit Breakers	
Trumbull Components Department, General Electric Co	Plainville
Clay	
Howard Company (Fire Howard "B" and High Temperature Dry)	New Haven
Cleaning Compounds	
Enthone Inc (Industrial)	New Haven
Cleaning Compounds	
MacDermid Incorporated	Waterbury
Clock Mechanisms	
Lux Clock Mfg Co The	Waterbury
Clocks	
E Ingraham Co The	Bristol
Seth Thomas Clocks	Thomaston
United States Time Corporation The	Waterbury
Clocks—Alarm	
Lux Clock Mfg Co The	Waterbury
Clocks—Automatic Cooking	
Lux Clock Mfg Co The	Waterbury
Clutches	
Snow-Nabstedt Gear Corp The	New Haven
Clutch Facings	
Raybestos Division of Raybestos-Manhattan Inc (Molded, Woven, Semi-metallic and Full-metallic)	Bridgeport
Russell Mfg Co The	Middletown
Coil Winding Machines	
Boesch Mfg Co Inc	Danbury
Coils	
Dano Electric Company	Winsted
Coils—Electric	
Bittermann Electric Company	Canaan
Coils—Pipe or Tube	
National Pipe Bending Co The	160 River St New Haven
Whitlock Manufacturing Co The	Hartford
Cold Molded Electrical Insulation	
Meriden Molded Plastics	Meriden
Commercial Heat Treating	
A F Holden Company The	52 Richard St West Haven
Commercial Truck Bodies	
Metropolitan Body Company	Bridgeport
Comparators	
Pratt & Whitney Div Niles-Bement-Pond Co (Electro-limit and Air-O-Limit)	West Hartford
Compressors	
Norwalk Company Inc (high pressure air and gas)	South Norwalk
Computers	
Newton Co The (electronic)	Manchester
Concrete Products	
Plastricrete Corp	Hamden
Cones	
Sonoco Products Co (Climax-Lowell Div) (Paper)	Mystic
Condenser and Heat Exchanger Tubes	
Bridgeport Brass Company	Bridgeport
Consulting Engineers	
McNeal J D (Electrical and Electronic)	New Haven
Stanley P Rockwell Co Inc The (Consulting)	Hartford
296 Homestead Ave	
Continuous Mill Gages	
Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford
Contract Machining	
Laurel Mfg Co Inc (Precision Production Small Parts)	Plainville
Malleable Iron Fittings Company	Branford
Charles Parker Co	Meriden
Contract Manufacturers	
Fenn Mfg Co The (Precision Machine Work)	Newington
Greist Mfg Co The (metal parts and assemblies)	New Haven
503 Blake St	
Merriam Mfg Co (production runs—metal boxes and containers to specifications)	Durham
Charles Parker Co (sheet metal fabricators)	Meriden
Plume & Atwood Mfg Co The (metal parts & assemblies)	Thomaston
Scovill Manufacturing Company (metal parts and assemblies)	Waterbury 91
J H Sessions & Son	Bristol
Controllers	
Bristol Company The	Waterbury
Manning Maxwell & Moore Inc	Stratford
Controls—Remote	
Paish Controls (Remote Controls for Marine & Aeronautic Applications)	Bridgeport
Converters DC to AC	
Electric Specialty Co	Stamford
Conveyor Systems	
Leeds Conveyor Mfg Co The	East Haven
Production Equipment Co	Meriden
Copper	
American Brass Corp The (sheet, wire, rods, tubes)	Waterbury
Bridgeport Brass Company (sheet, rod, wire and tubing)	Bridgeport
Bristol Brass Corp The (steel)	Bristol
Chase Brass & Copper Co (sheet, rod, wire tube)	Waterbury
Thinsheet Metals Co The (sheets and rolls)	Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp	New Haven
Copper Castings	
Knapp Foundry Company Inc	Guilford
Copper Sheets	
American Brass Company The	Waterbury
New Haven Copper Co The	Seymour
Copper Shingles	
New Haven Copper Co The	Seymour
Copperware	
Bridgeport Brass Company (cooking utensils)	Bridgeport
Copper Water Tube	
American Brass Company The	Waterbury
Bridgeport Brass Co	Bridgeport
Cords—Asbestos	
General Electric Company	Bridgeport
Cords—Braided	
Essex Mills Inc	Essex
General Electric Company	Bridgeport
Cords—Heater	
General Electric Company	Bridgeport
Cords—Portable	
General Electric Company	Bridgeport
Cord Sets—Electric	
General Electric Company	Bridgeport
Seeger-Williams Inc	Bridgeport
Cork Cots	
Sonoco Products Co (Climax-Lowell Div)	Mystic
Corrugated Box Manufacturers	
Connecticut Container Corporation	New Haven
Corrugated Containers Inc	Hartford
Corrugated Shipping Cases	
Connecticut Container Corporation	New Haven
Connecticut Corrugated Box Div Robert Gair Co Inc	Portland
D L & D Container Corp 87 Shelton Ave	New Haven
Cosmetic Containers	
Evelet Specialty Co The	Waterbury
Plume & Atwood Mfg Co The (metal)	Thomaston
Cosmetics	
J B Williams Co The	Glastonbury
Cotton and Asbestos Wicking	
Bland Burner Co The	Hartford
Cotton Yarn	
Floyd Cransa Co The	Moosup
Counting Devices	
Veeder-Root Inc	Hartford
Couplings—Self-Sealing	
Sperry Products Inc	Danbury
Cranes and Conveyors	
I-B Engineering Sales Co	New Haven
Crushers	
Farrel-Birmingham Company Inc (Stone and Ore)	(Stone and Ansonia)
Cups—Paper	
American Paper Goods Company The ("Puritani")	Kensington
Cushioning for Packaging	
B F Goodrich Sponge Products Division	Shelton
Gilman Brothers Co The	Gilman
Cut Stone	
Dextone Co The	New Haven
Cutters	
Barnes Tool Company The (pipe cutters, hand)	New Haven
Mitrametric Co The (ground pinion)	Torrington
Pratt & Whitney Div Niles-Bement-Pond Co (Milling Cutters all types)	West Hartford
Cutting & Creasing Rule	
Bartholomew Co H I	Bristol
Cyl. Gauges & Tools	
J & S Machine Co Inc	Hartford
Decorative Plating and Polishing	
City Plating Works Inc	Bridgeport
Deep Hole Drilling & Reaming	
Hamden Deep Hole Drilling Co	Hamden
Wilson Arms Co The	Hamden
Deep Drawings	
Stanley Pressed Metal	New Britain
Delayed Action Mechanism	
M H Rhodes Inc	Hartford
Demineralizers	
Crystal Research Laboratories	Hartford
Development Work	
Saybrook Manufacturing Inc	Old Saybrook
Diamonds—Industrial	
Diamond Tool and Die Works	Hartford
Dictating Machines	
Dictaphone Corporation	Bridgeport
Gray Manufacturing Company The	Hartford
Soundscreeper Corporation The	New Haven
Die Cast Dies	
C & F Tool & Die Corp	Bridgeport
Die Castings	
Mt Vernon Die Casting Co	Stamford
Newton-New Haven Co Inc	New Haven
Die Casting Dies	
ABA Tool & Die Co	Manchester
Parker Stamp Works Co The	Hartford
Weimann Bros Mfg Co The	Derby
Eastern Machine Screw Corp The	Truman & Barclay Sts New Haven
Die Heads—Self Opening	
Eastern Machine Screw Corp The	New Haven
Geometric Tool Division, Greenfield Tap & Die Corp.	New Haven
Die Polishing Machinery	
Hartford Special Machinery Co The	Hartford
Die Sets	
Pratt & Whitney Div Niles-Bement-Pond Co (Precision)	West Hartford
Producto Machine Company The	Bridgeport
Union Mfg Co (precision, steel and semi-steel)	New Britain
Dies	
Hoggson & Pettis Mfg Co The 141 Brewery St	New Haven
Mitrametric Co The (ground for gears)	Torrington
Parker Stamp Works Inc The (plastics and die castings)	Hartford
Pratt & Whitney Div Niles-Bement-Pond Co (Monocone and Ducone Dies)	West Hartford
Precision Engineering Co Inc (forging, trimming & blanking)	Southington
Die Sinks	
Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford
Dies & Die Cutting	
Douglas Co Geo M	New Haven
Dies and Die Sinking	
Consolidated Industries	West Cheshire
Dish Drying Machines	
Colt's Manufacturing Company	Hartford
Dish Washing Machines	
Colt's Manufacturing Company	Hartford
Display Containers	
National Folding Box Co Inc (folding paper-board)	New Haven and Versailles (Advt.)

I T ' S M A D E I N C O N N E C T I C U T

Displays—Metal		Electric Time Controls		Envelopes—Stock and Special	
Durham Mfg Co The (Designing & Mfg to customers' specifications)	Durham	R W Cramer Company Inc The	Centerbrook	American Paper Goods Company The	Kensington
Merriam Mfg Co (Contract Work to Individual Specifications)	Durham	Electric Timers		Extractors—Tap	
Parsons Co Inc W A (custom designed)	Durham	Sessions Clock Co The	Forestville	Walton Company The	West Hartford
Distribution Centers		Electric Timing Motors		Eyelets	
Distribution Assemblies Department, General Electric Co	Plainville	Sessions Clock Co The (small)	Forestville	American Brass Company The	Waterbury
Door Closers		Electric Wire		Platt Bros & Co The P O Box 1030	Waterbury
Sargent & Company	New Haven	General Electric Company	Bridgeport	Plume & Atwood Mfg Co The	Thomaston
Yale & Towne Mfg Co The	Stamford	Rockbestos Products Corp (asbestos insulated)	New Haven	Scovill Manufacturing Company	Waterbury 91
Doors		Electric Wiring Devices		Stevens Co Inc	Waterbury
Bilco Co The (metal, residential and commercial)	West Haven	Arrow-Hart & Hegeman Electric Co The	Hartford	Eylets, Ferrules and Wiring Terminals	
Dowel Pins		General Electric Company	Bridgeport	American Brass Company The	Waterbury
Allen Manufacturing Co The	Hartford	Electrical Conduit Fittings & Grounding		Eyelet Machine Products	
Holo-Krome Screw Corp The	West Hartford	Specialties		American Brass Company The	Waterbury
Drafting Accessories		Gillette-Vibber Company The	New London	Ball & Socket Mfg Co The	West Cheshire
Joseph Merritt & Co	Hartford	Electrical Connectors		Cold Forming Mfg Co The	Waterbury
Drill Presses		Burndy Engineering Co Inc	Norwalk	Plume & Atwood Mfg Co The	Thomaston
Townsend Mfg Co The H P	Elmwood	Electrical Control Apparatus		Eyelet Machine Products	
Drilling Machines		Plainville Electrical Products Co The	Plainville	Stevens Co Inc	Waterbury
Pratt & Whitney Div Niles-Bement-Pond Co (Deep Hole)	West Hartford	Electrical Goods		Fancy Dress Buttons and Buckles	
Drilling and Tapping Machinery		A C Gilbert Co	New Haven	Waterbury Companies Inc	Waterbury
Hartford Special Machinery Co The	Hartford	Electrical Motors		Fans—Electric	
Drop Forgings		Electric Specialty Co	Stamford	General Electric Company	Bridgeport
Atwater Mfg Co	Plantsville	U S Electrical Motors Inc	Milford	Fasteners—Slide & Snap	
Billings & Spencer Co The	Hartford	Electrical Outlet and Switch Boxes, and Covers		G E Prentice Mfg Co The	Kensington
Blakelee Forging Company The	Plantsville	General Electric Company	Bridgeport	Scovill Manufacturing Company (snap and slide fasteners)	Waterbury 91
Consolidated Industries	West Cheshire	Electrical Recorders		Felt	
Wilcox-Crittenden Div North & Judd Mfg Co	Middletown	Bristol Co The	Waterbury	Auburn Manufacturing Company The (mechanical, cut parts)	Middletown
Druggists' Rubber Sundries		Electrical Relays and Controls		Drycor Felt Company (paper makers and industrial)	Staffordville
Seamless Rubber Company The	New Haven	Allied Control Co	Plantsville	Felt—All Purpose	
Duplicating Machines—Automatic		Electrical Switchboards		American Felt Co (Mill & Cutting Plant)	Glenville
Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	Plainville Electrical Products Co The	Plainville	Chas W House & Sons Inc (Mills & Cutting Plant)	Unionville
Duplicator Tables		McNeal J D	New Haven	Fenders—Boat	
Regent Machine Co	Bridgeport	Electrical Test Equipment		B F Goodrich Sponge Products Division	Shelton
Essex Mills Inc	Essex	Wiremold Co The	Hartford	Fiber-glass Fabrication	
Electric Cables		Electronic Parts		Davis Co The E J	New Haven
General Electric Company	Bridgeport	Terrville Manufacturing Co (Stampings to customer specifications)	Terryville	Fibre Board	
Rockbestos Products Corp (asbestos insulated)	New Haven	Electronics		Case Brothers Inc	Manchester
Electric Clocks		Gray Manufacturing Company The	Hartford	C H Norton Co The	North Westchester
Sessions Clock Co The (alarm, kitchen, occasional and office)	Forestville	McNeal J D	New Haven	Stevens Paper Mills Inc The	Windsor
Electric—Communtators & Segments		Newton Co The	Manchester	Finger Nail Clippers	
Cameron Elec Mfg Co The (rewinding motors)	Ansonia	Ripley Co	Middletown	H C Cook Co The	32 Beaver St Ansonia
Electric Cord Springs		Sturup Larrabee & Warmers Inc	Middletown	File Cards	
Bristol Spring Manufacturing Co	Plainville	Electroplating		Standard Card Clothing Co The	Stafford Springs
Electric Cords		National Sherardizing & Machine Co	Hartford	Films	
General Electric Company	Bridgeport	Waterbury Plating Company	Waterbury	Cine-Video Productions Inc	Milford
Rockbestos Products Corp (asbestos insulated)	New Haven	Electroplating—Equipment & Supplies		Firearms	
Electric Eye Control		Enthone Inc	New Haven	Colt's Manufacturing Company	Hartford
Ripley Company Inc	Middletown	Lea Manufacturing Co The	Waterbury	Marlin Firearms Co The	New Haven
Electric Fixture Wire		MacDermid Incorporated	Waterbury	O F Mosberg & Sons Inc	New Haven
General Electric Company	Bridgeport	Electroplating Processes & Supplies		Remington Arms Company Inc	Bridgeport
Rockbestos Products Corp (asbestosinsulated)	New Haven	Enthone Inc	New Haven	Arms and Ammunition Div Olin Mathieson Chemical Corp	New Haven
Electric Hand Irons		United Chromium Incorporated	Waterbury	Fire Hose	
Winsted Hardware Mfg Co (trade mark "Durable")	Winsted	Electrotypes		Fabrics Fire Hose (municipal and industrial)	Sandy Hook
Electric Heating Elements		Barnum-Hayward Electrotype Co Inc	New Haven	Fireplace Goods	
Hartford Element Co	Hartford	Lockwood Sons Inc Wm H	Hartford	American Windshield & Specialty Co The	
Electric Insulation		New Haven Electrotype Div	Electrographic New Haven	881 Boston Post Road	Milford
Case Brothers Inc	Manchester	Elevators		John P Smith Co The (screens) 423-33 Chapel St	New Haven
Stevens Paper Mills Inc The	Windsor	Eastern Machinery Co The (passenger and freight)	New Haven	Fireproof Floor Joists	
Electric Lighting Fixtures		General Elevator Service Co	Hartford	Dextone Co The	New Haven
Fan-Craft Mfg Co (residential, church, post lanterns)	Plainville	Enameling		Fireworks	
Plume & Atwood Mfg Co The	Thomaston	Conn Metal Finishing Co	Hamden	M Backes' Sons Inc	Wallingford
Wasley Products Inc	Plainville	Waterbury Plating Company	Waterbury	Fishing Tackle	
Electric Motor Controls		Enameling and Finishing		H C Cook Co The 32 Beaver St	Ansonia
Arrow-Hart & Hegeman Electric Co The	Hartford	Claireglow Mfg Co	Portland	Flashlights	
Electrical Outlet and Switch Boxes, and Covers		End Milling Cutters		Bridgeport Metal Goods Mfg Co	Bridgeport
General Electric Company	Bridgeport	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	Electrical Div Olin Mathieson Chemical Corp	New Haven
Electric Signs		Engines		Flat Springs	
Berger Sign Co	Hartford	Pratt & Whitney Aircraft Div United Aircraft Corp. (aircraft)	East Hartford	Bristol Spring Manufacturing Co	Plainville
United Advertising Corp	New Haven	Wolverine Motor Works Inc (diesel stationary marine)	Bridgeport	Gemco Manufacturing Co Inc	Southington
Electric Switches		Envelopes		Flexible Shaft Machines	
Arrow-Hart & Hegeman Electric Co The	Hartford	Curtis 1000 Inc	Hartford	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford
General Electric Company	Bridgeport	United States Envelope Company	Hartford	(Advt.)	

I T ' S M A D E I N C O N N E C T I C U T

Floor & Ceiling Plates	
Beaton & Cadwell Mfg Co The	New Britain
Fluorescent Lighting Equipment	
Fullerton Manufacturing Corp	Norwalk
Vanderman Manufacturing Co The	Willimantic
Wiremold Company The	Hartford
Foam Rubber	
B F Goodrich Sponge Products Division	Shelton
Forgings	
Billings & Spencer Company	Hartford
Capewell Manufacturing Company	Hartford
Cawthra Bros Forge Co	Shelton
Clark Brothers Bolt Co	Milldale
Consolidated Industries Inc	West Cheshire
Heppenstall Co (all kinds and shapes)	Bridgeport
Scovill Manufacturing Company	(Non-ferrous) Waterbury 91
Foundries	
Connecticut Malleable Castings Co (malleable iron castings)	New Haven
Ductile Iron Foundry Inc	Stratford
Farrel-Birmingham Company Inc (Iron and Steel)	Ansonia
Fritzell Foundry & Casting Co The	New Haven
Hartford Electric Steel Corp The	Hartford
Charles Parker Company The (iron, brass, bronze, aluminum)	Meriden
Plainville Casting Company (gray, alloy and high tensile irons)	Plainville
Producto Machine Company The	Bridgeport
Stamford Casting Company Inc (Aluminum, Magnesium and Bronze)	Stamford
Turner & Seymour Mfg Co The (gray iron, semi steel and alloy)	Torrington
Union Mfg Co (gray iron & semi steel)	New Britain
Wilcox-Crittenden Div North & Judd Mfg Co (iron, brass, aluminum and bronze)	Middletown
Fountain Pens and Mechanical Pencils	
Waterman Pen Company Inc	Seymour
Foundry Riddles	
John P Smith Co The	423-33 Chapel St New Haven
Fuel Oil Pump and Heater Sets	
Peabody Engineering Corporation	Stamford
Furnace Linings	
Mullite Refractories Co The (refractories, super refractories)	Shelton
Fuses—Plug and Cartridge	
General Electric Company	Bridgeport
Gage Blocks	
Pratt & Whitney Div Niles-Bement-Pond Co (Alloy steel and Carbide, Hoke and USA)	West Hartford
Gages	
Farmington Engineering Co The	Bloomfield
Galvanizing	
Malleable Iron Fittings Co	Branford
Wilcox-Crittenden Div North & Judd Mfg Co	Middletown
Gaskets	
Auburn Manufacturing Company The (from all materials)	Middletown
Raybestos Division of Raybestos-Manhattan Inc	Bridgeport
Tsingris Die Cutting Corp (from all materials)	Waterbury
Gas Range Conversion Burner	
Holyoke Heater Corp of Conn Inc	Hartford
Gas Scrubbers, Coolers and Absorbers	
Peabody Engineering Corporation	Stamford
Gauges	
Bristol Co The (pressure and vacuum—recording automatic control)	Waterbury
Helicoid Gage Division American Chain & Cable Co The (pressure and vacuum)	Bridgeport
Manning Maxwell & Moore Inc	Stratford
Pratt & Whitney Div Niles-Bement-Pond Co (Precision Measurement all types)	West Hartford
Gears	
Mitrametric Co The (blanked fine pitch)	Torrington
Gears and Gear Cutting	
Farrel-Birmingham Company Inc	Ansonia
Fenn Mfg Co The	Newington
Hartford Special Machinery Co The	Hartford
Glass Blowing	
Macalaster Bicknell Company	New Haven
Glass Cutters	
Fletcher-Terry Co The	Forestville
Glass Machinery	
Tavano Mfg Co	Torrington
Golf Equipment	
Horton Mfg Co The (clubs, shafts, balls, bags)	Bristol
Greeting Cards	
A D Steinbach & Sons Inc	New Haven
Grinding	
Farrel-Birmingham Company Inc (Roll and Cylindrical)	Ansonia
Hartford Special Machinery Co The (gears, threads cams and splines)	Hartford
Horberg Grinding Industries Inc (Precision custom grinding; centerless, cylindrical, surfaces, internal and special)	19 Staples St Bridgeport
Grinding Heads—Internal	
Pratt & Whitney Div Niles-Bement-Pond Co (Pneumatic, High Speed)	West Hartford
Grinding Machines	
Farrel-Birmingham Company Inc (Roll)	Ansonia
Pratt & Whitney Div Niles-Bement-Pond Co (Surface, Die, Gear and Cutter Grinders)	West Hartford
Rowbottom Machine Company Inc (cam)	Waterbury
Grommets	
American Brass Company The	Waterbury
Plume & Atwood Mfg Co The	Thomaston
Ground Rubber Rolls	
Saybrook Manufacturing Inc	Old Saybrook
Guards for Machinery	
Wheeler Co The G E	New Haven
Hack and Band Saw Blades	
Capewell Manufacturing Co The	Hartford
Hammers—Carpenters and Machinists	
Capewell Manufacturing Company	Hartford
Hand Tools	
Billings & Spencer Company (wrenches, sockets and shop tools)	Hartford
Bridgeport Hdwe Mfg Corp The (nail pullers, scout axes, box opening tools, trowels, coping saws, putty knives)	Bridgeport
Hard Crome	
City Plating Works Inc	Bridgeport
Hardness Testers	
Wilson Mechanical Instrument Div	American Chain & Cable Company Inc Bridgeport
Hardware	
Bassick Company The (Automotive)	Bridgeport
Harloc Products Corp	New Haven
Sargent & Company	New Haven
Wilcox-Crittenden Div North & Judd Mfg Co (marine heavy, and industrial)	Middletown
Yale & Towne Mfg Co The	Stamford
Hardware—Marine & Bus	
Rostand Mfg Co The	Milford
Hardware—Trailer Cabinet	
Excelsior Hardware Co The	Stamford
Hardware, Trunk & Luggage	
Corbin Cabinet Lock Div American Hardware Corp	New Britain
I H Sessions & Son	Bristol
Yale & Towne Mfg Co The	Stamford
Hat Machinery	
Doran Bros Inc	Danbury
Health Surgical & Orthopedic Supports	
Berger Brothers Company The (custom made for back, breast, and abdomen)	New Haven
Heat Exchangers	
Whitlock Manufacturing Co The	Hartford
Heat Elements	
Safeway Heat Elements Inc (woven wire resistance type)	Middletown
Heat Treating	
A F Holden Co The 52 Richard St	West Haven
Bennett Metal Treating Co The	1045 New Britain Ave Elmwood
Commercial Metal Treating Co	Bridgeport
New Britain-Gridley Machine Division	Bridgeport
The New Britain Machine Co	New Britain
New Haven Heat Treating Co	New Haven
Stanley P Rockwell Co Inc The	296 Homestead Ave Hartford
Heat-Treating Equipment	
Autoyre Company The	Oakville
Barnes Co The Wallace Div Associated Spring Corp	Bristol
A F Holden Company The 52 Richard Street	West Haven (Main Plant)
Bauer & Company Inc	Hartford
Rolock Inc (Retorts, Muffles, etc.)	Fairfield
Stanley P Rockwell Co Inc The (commercial)	Hartford
Heat Treating Fixtures	
Rolock Inc (Trays, Baskets, etc.)	Fairfield
Wiretex Mfg Co Inc	Bridgeport
Heat Treating Salts and Compounds	
A F Holden Company The	52 Richard Street West Haven
Mitchell-Bradford Chemical Co	Bridgeport
Heating and Cooling Coils	
G & O Manufacturing Co	New Haven
Heating Elements	
Hartford Element Co	Hartford
Heavy Chemicals	
Naugatuck Chemical Division United States Rubber Co (sulphuric, nitric and muriatic acids and aniline oil)	Naugatuck
Hex-Socket Screws	
Bristol Company The	Waterbury
Holo-Krome Screw Corp The	West Hartford
High Frequency Alternators	
Electric Specialty Co	Stamford
Highway Guard Rail Hardware	
Malleable Iron Fittings Co	Branford
Hinges	
Homer D Bronson Company	Beacon Falls
Hobs and Hobblings	
ABA Tool & Die Co	Manchester
Pratt & Whitney Div Niles-Bement-Pond Co (Die and Thread Milling)	West Hartford
Hoists	
J-B Engineering Sales Co	New Haven
Hoists and Trolleys	
Union Mfg Company	New Britain
Hose Fittings	
Don Mfg Co J M	Naugatuck
Hose—Flexible Metallic	
American Brass Co	Waterbury
American Metal Hose Branch	Waterbury
Hose Supporter Trimmings	
Hawie Mfg Co The (So-Lo Grip Tabs)	Bridgeport
Hospital Signal Systems	
Conn Telephone & Electric Corp Subsidiary of Great American Industries Inc	Meriden
Hydraulic Brake Fluids	
Eis Manufacturing Co	Middletown
Hydraulic Controls	
Sperry Products Inc	Danbury
Hypodermic Needles	
Roehr Products Company	Waterbury
Ice Buckets	
B F Goodrich Sponge Products Division	Shelton
Inductors	
C G S Laboratories Inc	Stamford
Industrial Chrome Plating	
Mirror Polishing & Buffing Co	Waterbury
Industrial Displays	
Sansone Co S Frederick (Designers Builders and Counselors)	Short Beach
Industrial Finishes	
Chemical Coatings Corporation	Rocky Hill
United Chromium Incorporated	Waterbury
Industrial Tools—Powder Actuated	
Remington Arms Company Inc	Bridgeport
Inks	
Waterman Pen Company Inc	Seymour
Insecticides	
American Cyanamid Company	Waterbury
Insulated Wire & Cable	
General Electric Company	Bridgeport
Kerite Company The	Seymour
Insulated Wire & Cable Machinery	
Davis Electric Company	Wallingford
Instruments	
Bristol Company The	Waterbury
J-P T Instruments Inc (Electrical and Temperature)	New Haven
Manning Maxwell & Moore Inc	Stratford
Pratt & Whitney Div Niles-Bement-Pond Co (Precision Measuring)	West Hartford
Insulation	
Gilman Brothers Co The	Gilman (Advt.)

I T ' S M A D E I N C O N N E C T I C U T

Inter-Communications Equipment		Leather Goods Trimmings		Machinery	
Conn Telephone & Electric Corp	Meriden	G E Prentice Mfg Co The	Kensington	Fenn Manufacturing Company The	(special) Newington
Interval Timers		Leather, Mechanical		Globe Tapping Machine Company	(dial type) Bridgeport
Lux Clock Manufacturing Company	Waterbury	Auburn Manufacturing Company	The (pack-)	Hallden Machine Company The	(mill) Thomaston
Rhodes Inc M H	Hartford	ings, cubs, washers, etc)	Middletown	Torrington Manufacturing Co The	(mill) Torrington
Jacquard		Letterheads		Machinery—Automatic	
Case Brothers Inc	Manchester	Lehman Brothers Inc (designers, engravers, lithographers)	New Haven	Banthin Engineering Company (new and re-built)	Bridgeport
Japanning		Light Assemblies		Machinery—Bolt and Nut	
J H Sessions & Son	Bristol	Saybrook Manufacturing Inc	Old Saybrook	Waterbury Farrel Foundry & Machine Co The	Waterbury
Jig Borer		Lighting Accessories—Fluorescent		Machinery—Cold Heading	
Moore Special Tool Co (Moore)	Bridgeport	General Electric Company	Bridgeport	Waterbury Farrel Foundry & Machine Co The	Waterbury
Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	Lighting Equipment		Machinery Dealers & Rebuilders	
Jigs, Fixtures & Gages		Fullerton Manufacturing Corp	Norwalk	Botwinik Brothers	New Haven
Federal Machine & Tool Co	Bristol	Miller Co The (Miller, Duplexalite, Ivanhoe)	Meriden	I L Lucas and Son	Fairfield
Jig Grinder		Lines—Braided		State Machinery Co Inc	New Haven
Moore Special Tool Co (Moore)	Bridgeport	Essex Mills Inc	Essex	Machinery—Extruding	
Keller Machines		Lime		Standard Machinery Co The	Mystic
Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	New England Lime Company	Canaan	Machinery—Metal-Working	
Key Blanks		Lipstick Containers		Fenn Mfg Co The	Newington
Sargent & Company	New Haven	Bridgeport Metal Goods Mfg Co	Bridgeport	Waterbury Farrel Foundry & Machine Co The	Waterbury
Yale & Towne Mfg Co The	Stamford	Plume & Atwood Manufacturing Co	Waterbury	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford
Labels		Lithographers		Machinery—Nut	
I & J Cash Inc (Woven)	South Norwalk	O'Toole & Sons Inc T	Stamford	Waterbury Farrel Foundry & Machine Co The	(forming and tapping) Waterbury
Naugatuck Chemical Division United States Rubber Co (for rubber articles)	Naugatuck	Lithographing		Machinery—Screw and Rivet	
Label Moisteners		Kellogg & Bulkeley A Division of	Connecticut	Waterbury Farrel Foundry & Machine Co The	Waterbury
Better Packages Inc	Shelton	Printers Inc	Hartford	Machinery—Wire Drawing	
Laboratory Equipment		Lehman Brothers Inc	New Haven	Fenn Mfg Co The	Newington
Eastern Industries Inc	New Haven	A D Steinbach & Sons	New Haven	Waterbury Farrel Foundry & Machine Co The	Waterbury
Laboratory Supplies		Locks—Banks		Machinery—Wire Straightening	
Macalaster Bicknell Company	New Haven	Yale & Towne Mfg Co The	Stamford	Mettler Machine Tool Inc	New Haven
Laces		Locks—Builders		Machines	
American Fabrics Company The	Bridgeport	Eagle Lock Co The	Terryville	Campbell Machine Div American Chain & Cable Co Inc (cutting & nibbling)	Bridgeport
Wilcox Lace Corporation The	Middletown	Sargent & Company	New Haven	Coulter & McKenzie Machine Co The (special, new development engineering design and construction)	Bridgeport
Laces and Nettings		Yale & Towne Mfg Co The	Stamford	Patent Button Company The	Waterbury
Wilcox Lace Corporation The	Middletown	Locks—Cabinet		Machines—Automatic	
Lacquers & Synthetic Enamels		Eagle Lock Co The	Terryville	A H Nilson Mach Co The (Special)	Bridgeport
Chemical Coatings Corporation	Rocky Hill	Excelsior Hardware Co The	Stamford	Machines—Automatic Chucking	
I-Sis Chemicals Inc	Stamford	Yale & Towne Mfg Co The	Stamford	Bullard Company The	Bridgeport
United Chromium Incorporated	Waterbury	Locks—Special Purpose		Machines—Automatic Chucking	
Ladders		Eagle Lock Co The	Terryville	New Britain-Gridley Machine Division	(multiple spindle and double end) New Britain
A W Flint Co	196 Chapel St New Haven	Yale & Towne Mfg Co The	Stamford	Pratt & Whitney Div Niles-Bement-Pond Co (Potter & Johnson)	West Hartford
Laminated Metal		Locks—Suitcase		Machines—Automatic Screw	
Bridgeport Brass Company	Bridgeport	Eagle Lock Co The	Terryville	New Britain-Gridley Machine Division	(single and multiple spindle) New Britain
Lamps		Locks—Suit-Case and Trimmings		Machines—Automatic Shaft Turning	
Plume & Atwood Mfg Co The (metal oil)	Thomaston	Excelsior Hardware Co The	Stamford	Bullard Company The (30H lathe—horizontal 3 spindle)	Bridgeport
Lampholders—Incandescent and Fluorescent		Locks—Trunk		Machines—Brushing	
General Electric Company	Bridgeport	Eagle Lock Co The	Terryville	Fuller Brush Co The	Hartford
Lamp Shades		Excelsior Hardware Co The	Stamford	Machines—Cont'n-U-Matic	
Verplex Company The	Essex	Yale & Towne Mfg Co The	Stamford	Bullard Company The (verticle multi-spindle—continuous turning)	Bridgeport
Lanterns—Battery Operated		Locks—Zipper		Machines—Draw Benches	
Electrical Div Olin Mathieson Chemical Corp	New Haven	Excelsior Hardware Co The	Stamford	Fenn Manufacturing Company The	Newington
Lathes—Cont'n-U-Matic		Loom—Non-Metallic		Machines—Drill Spacing	
Bullard Company The (vertical multi-spindle—continuous turning type)	Bridgeport	Wiremold Company The	Hartford	Bullard Company The (Bullard spacer—used in conjunction with radical drills)	Bridgeport
Lathes—30H Man-Au-Trol		Lumber & Millwork Products		Machines—Forming	
Bullard Company The (horizontal 3 spindle)	Bridgeport	City Lumber Co of Bridgeport Inc	Bridgeport	A H Nilson Mach Co The (four-slide wire and ribbon stock)	Bridgeport
Lathes—Multi-Au-Matic		Machetes		Machines—Multi-Au-Matic	
Bullard Company The (vertical multi-spindle—indexing type)	Bridgeport	Collins Company The	Collinsville	Bullard Company The	Bridgeport
Lathes—Toolroom and Automatic		Machine Design		Machines—Paper Ruling	
Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	Black Rock Mfg Company The	Bridgeport	John McAdams & Sons Inc	Norwalk
Lathes—Vertical Turret		Machine Tool Designers		Machines—Pipe & Bolt Threading	
Bullard Company The (single spindle)	Bridgeport	R & S Company	New Britain	Capewell Mfg Co The	Hartford (Adv.)
Lead Plating		Machine Tools			
Christie Plating Co The	Groton	Bullard Company The	Bridgeport		
Leather		Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford		
Norwich Leather Co	Norwich	Producto Machine Company The	Bridgeport		
Herman Roser & Sons Inc (Genuine Pigskin)	Glastonbury	Machine Work			
Leather Dog Furnishings		Black Rock Mfg Company The	Bridgeport		
Andrew B Hendryx Co The	New Haven	Farrel-Birmingham Company Inc	Ansonia		
The Smith-Worthington Saddlery Co	Hartford	Fenn Manufacturing Company The (precision parts)	Newington		
		Hartford Special Machinery Co The (contract work only)	Hartford		
		National Sheradizing & Machine Co (job)	Hartford		
		Parker Stamp Works Inc The (Special)	Hartford		
		Swan Tool & Machine Co The	Hartford		
		Torrington Manufacturing Co The (special rolling mill machinery)	Torrington		

I T ' S M A D E I N C O N N E C T I C U T

Machines—Precision Boring
New Britain-Gridley Machine Division
The New Britain Machine Co New Britain

Machines—Rolling
Fenn Manufacturing Company The Newington

Machine—Slotting
Globe Tapping Machine Company The (High
Production Screw Head Slotting) Bridgeport
Waterbury Farrel Foundry & Machine Co The
(screw head) Waterbury

Machines—Special
Fenn Mfg Co The Newington
Fuller Brush Co The Hartford

Machines—Swaging
Fenn Manufacturing Company The Newington

Machines—Thread Rolling
Hartford Special Machinery Co The Hartford
Waterbury Farrel Foundry & Machine Co The
Waterbury

Machines—Turks Head
Fenn Manufacturing Company The Newington

Machines—Well Drilling
Consolidated Industries West Cheshire

Machines—Wire Drawing
Fenn Manufacturing Company The Newington

Magnesium Castings
Stamford Casting Company Stamford

Magnet Wire
Viking Wire Co Inc Danbury

Manicure Instruments
W E Bassett Company The Derby

Manganese Bronze Ingot
Whipple and Choate Company Bridgeport

Marine Engines
Kilborn-Sauer Company (running lights and
searchlights) Fairfield
Lathrop Engine Co The Mystic

Marine Equipment
Russell Manufacturing Company The (utility
cord and accessory hardware) Middletown
Wilcox-Crittenden Div North & Judd Mfg Co
Middletown

Marine Reserve Gears
Snow-Nabstedt Gear Corp The New Haven

Marking Devices
Hoggson & Pettis Mfg Co The New Haven
Parker Stamp Works Inc The (steel) Hartford

Material Handling
Parsons Co Inc W A (tote pans) Durham

Mats—Newspaper
Lockwood Sons Inc Wm H Hartford

Mattresses
Waterbury Mattress Co Waterbury

Metal Boxes
Parsons Co Inc W A (tool kits) Durham

Metal Boxes and Displays
Durham Mfg Co The (Designing & Mfg to
customers' specifications) Durham
Merriam Mfg Co (Bond, Security, Cash, Util-
ity, Personal Files, Drawer Safes, Custombuilt
containers and displays) Durham
Charles Parker Co (sheet metal fabricators) Meriden

Metal Cleaners
Apothecaries Hall Co Waterbury
Enthone Inc New Haven
MacDermid Incorporated Waterbury

Metal Cleaning Machines
Colt's Manufacturing Company Hartford

Metal Finishes
Enthone Inc New Haven
Mitchell-Bradford Chemical Co Bridgeport
United Chromium Incorporated Waterbury

Metal Finishing
Hartford Industrial Finishing Co Hartford
National Sheradizing & Machine Co Hartford
Waterbury Plating Company Waterbury

Metal Formings
Master Engineering Company West Cheshire
Stanley Pressed Metal New Britain

Metal Mouldings
Leed Co The H A Hamden

Metalizing
Conn Metal Finishing Co Hamden

Metal Novelties
H C Cook Co The 32 Beaver St Ansonia

Metal Products—Stampings
American Brass Company The Waterbury
Plume & Atwood Manufacturing Co Waterbury

Metal Products—Stampings
I H Sessions & Son Thomaston
Scovill Manufacturing Company (Made-to-Or-
der) Bristol
Stanley Pressed Metal New Britain

Metal Specialties
Excelsior Hardware Co The Stamford

Metal Spinning
Moseley Metal Crafts Inc West Hartford

Metal Stampings
American Brass Company The Waterbury
Autoyre Co The (Small) Oakville
Better Formed Metals Inc Waterbury
DooVal Tool & Mfg Inc The Naugatuck
Excelsior Hardware Co The Stamford

Metal Stampings
Greist Mfg Co The 503 Blake St New Haven
H C Cook Co The 32 Beaver St Ansonia
Humason Mfg Co The Forestville
Mohawk Mfg Co (threaded) Middletown
J A Otterbein Company The (metal fabrica-
tions) Middletown

Metal Stampings
J. H. Sessions & Son Bristol
Patent Button Co The Waterbury
F E Prentice Mfg Co The Kensington
Plume & Atwood Mfg Co The Thomaston
Saling Manufacturing Company Unionville
Stanley Pressed Metal New Britain
Swan Tool & Machine Co The Hartford
Terryville Manufacturing Co Terryville
United States Rubber Company Shoe Hard-
ware Division Waterbury

Metal Stampings
Verplex Company The (Contract) Essex
Waterbury Lock & Specialty Co The Milford

Meters
Standard Meter Repair Co The Shelton

Meters—Gas
Sprague Meter Company Bridgeport

Meters—Parking
Rhodes Inc M H Hartford

Microfilming
American Microfilming Service Company New Haven

Milk Bottle Carriers
John P Smith Co The 423-33 Chapel St
New Haven

Millwork
Hartford Builders Finish Co Hartford

Milling Machines
Pratt & Whitney Div Niles-Bement-Pond Co
(Keller Tracer—Controlled Milling Machines)
West Hartford

Milling Machines
Rowbottom Machine Company Inc (cam) Waterbury

Mill Supplies
Wilcox-Crittenden Div North & Judd Mfg Co
Middletown

Miniature Precision Connectors
Gorn Electric Co Stamford

Minute Minders
Lux Clock Mfg Co The Waterbury

Mirror Rosettes and Hangers
Waterbury Companies Inc Waterbury

Mixing Equipment
Eastern Industries Inc New Haven
Gabb Special Products Div. The E Horton &
Son Co Windsor Locks

Mops
Fuller Brush Co The Hartford

Motor Control Centers
Distribution Assemblies Department, General
Electric Co Plainville

Motor—Generator Sets
Electric Specialty Co Stamford

Motors—Electric Timing
Cramer Co Inc The R W Centerbrook

Motors—Synchronous
Cramer Co Inc The R W Centerbrook
Electric Specialty Co Stamford

Moulded Plastic Products
Butterfield Inc T F Naugatuck
Colt's Manufacturing Company Hartford
Patent Button Co The Waterbury
Waterbury Companies Inc Waterbury
Watertown Mfg Co The 117 Echo Lake Road
Watertown

Mouldings
Himmel Brothers Co The (architectural, metal
and store front) Hamden

Moulds
ABA Tool & Die Co Manchester
Hoggson & Pettis Mfg Co The (steel) New Haven
114 Brewery St New Haven
Parker Stamp Works Inc The (compression
injection & transfer for plastics) Hartford

Napper Clothing
Standard Card Clothing Co The (for textile
mills) Stafford Springs

Nettings
Wilcox Lace Corp The Middletown

Newspaper Mats
Lockwood Sons Inc Wm H Hartford

Nickel Anodes
Apothecaries Hall Co Waterbury

Nickel Silver
American Brass Company The Waterbury

Nickel Silver
Bridgeport Brass Company Bridgeport
Plume & Atwood Mfg Co The Thomaston
Seymour Mfg Co The Seymour

Nickel Silver
Waterbury Rolling Mills Inc (sheets, strips,
rolls) Waterbury
Western Brass Mills Div Olin Mathieson
Chemical Corp (sheet, strip) New Haven

Nickel Silver Ingot
Whipple and Choate Company The Bridgeport

Night Latches
Sargent & Company New Haven
Yale & Towne Mfg Co Inc Stamford

Non-ferrous Metal Castings
Miller Company The Meriden
Charles Parker Co Meriden

Nuts, Bolts and Washers
Clark Brothers Bolt Co Milldale

Office Equipment
Pitney-Bowes Inc Stamford
Underwood Corporation Bridgeport & Hartford

Offset Printing
Kellogg & Bulkeley A Division of Connecticut
Printers Inc Hartford

Oil Burners
Miller Company The (domestic) Meriden
Peabody Engineering Corp (Mechanical and/or
Steam Atomizer) Stamford

Oil Burners
Silent Glow Oil Burner Corp The
1477 Park St Hartford

Oil Tanks
Norwalk Tank Co The (550 to 30M gals, under-
writers above and under ground) South Norwalk

Oil Tanks
Whitlock Manufacturing Co The Hartford

Oil—Cutting
Anderson Oil Co Inc F E Portland

Open Knife Switches and Accessories
Trumbull Components Department, General
Electric Co Plainville

Optical Cores & Ingots
Plume & Atwood Mfg Co The Thomaston

Otis Woven Awning Stripes
The Falls Company Norwich

Outlets—Electric
General Electric Company Bridgeport

Ovens—Electric
Bauer & Company Inc Hartford

Package Sealers
Better Packages Inc Shelton

Packaging Machinery
Colt's Manufacturing Company (box making
machinery. Trade mark "Rite Size") Hartford

Packing
Auburn Manufacturing Company The (leather,
rubber, asbestos, fibre) Middletown
Raybestos Division of Raybestos-Manhattan
Inc (Asbestos and Rubber Sheet) Bridgeport

Packaging & Packing
Mercer & Stewart Co The Hartford

Pads—Office
The Baker Goodyear Company New Haven

Padlocks
Sargent & Company New Haven
Waterbury Lock & Specialty Co The Milford
Yale & Towne Mfg Co Inc Stamford

Paints and Enamels
Staminate Corp The New Haven

Panta
Moore Special Tool Co (crush wheel dresser)
Bridgeport

Panelboards—Lighting and Distribution
Distribution Assemblies Department, General
Electric Co Plainville

Panelyte
Leed Co The H A Hamden

Paperboard
Federal Paper Board Co Inc Montville, New Haven & Versailles
Gair Company Inc Robert Montville
Robertson Paper Box Co Montville
New Haven Board and Carton Co New Haven

Paper Box—Partitions
American Rondo Corporation (specialty partitions) Hamden

Paper Boxes
Atlantic Carton Corp (folding) Norwich
Gair Co Inc Robert (folding) Montville
National Folding Box Co Inc (folding) New Haven & Versailles

Paper Boxes
New Haven Board and Carton Co The New Haven

Paper Boxes
Mills Inc H J New Haven
Robertson Paper Box Co (folding) Bristol
(Advt.) Montville

IT'S MADE IN CONNECTICUT

Paper Boxes—Folding and Setup	
Bridgeport Paper Box Company	Bridgeport
M Backes' Sons Inc	Wallingford
Paper Clips	
H C Cook Co The (steel) 32 Beaver St	Ansonia
Paper Mill Machinery	
Farrel-Birmingham Company Inc	Ansonia
Paper Tags and Pin Tickets	
Waterbury Tag Company The	Waterbury
Paper Tubes and Cores	
Sonoco Products Co (Climax-Howell) Div	Mystic
Parachute Cord	
Essex Mills Inc	Essex
Parallel Tubes	
Sonoco Products Co (Climax-Howell) Div	Mystic
Parkerizing	
Clairglow Mfg Company	Portland
Parking Meters	
Rhodes Inc M H	Hartford
Passenger Car Sander	
Conn Telephone & Electric Corp	Subsidiary of
Great American Industries Inc	Meriden
Pattern-Makers	
Farrel-Birmingham Company Inc	Ansonia
Penlights	
Bridgeport Metal Goods Mfg Co	Bridgeport
Pet Furnishings	
Andrew B Hendrix Co The	New Haven
Pharmaceutical Specialties	
Ernst Bischoff Company Inc	Ivoryton
Phosphor Bronze	
American Brass Company The	Waterbury
Bridgeport Brass Company The	Bridgeport
Miller Company The (sheets, strips, rolls)	Meriden
Seymour Mfg Co The	Seymour
Waterbury Rolling Mills Inc (sheets, strips, rolls)	Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp (sheet, strip)	New Haven
Phosphor Bronze Ingots	
Whipple and Choate Company The	Bridgeport
Photoflash Batteries	
Electrical Div Olin Mathieson Chemical Corp	New Haven
Photographic Equipment	
Electrical Div Olin Mathieson Chemical Corp	New Haven
Kalart Company Inc	Plainville
Piano Repairs	
Pratt Read & Co Inc (keys and action)	Ivoryton
Piano Supplies	
Pratt Read & Co (keys and actions, backs, plates)	Ivoryton
Pins	
CEM Company ("Spirol")	Danielson
Pin Up Lamps	
Verplex Company The	Essex
Pipe	
American Brass Co The (brass and copper)	Waterbury
Bridgeport Brass Co (brass and copper)	Bridgeport
Chas Brass & Copper Co (red brass and copper)	Waterbury
Howard Co (cement well and chimney)	New Haven
Pipe Fitters Hand Tools & Pipe Threading Machines	
Capewell Manufacturing Company	Hartford
Pipe Fittings	
Corley Co Inc	Plainville
Malleable Iron Fittings Co	Branford
Pipe Plugs	
Holo-Krome Screw Corporation The (counter-sunk)	West Hartford
Pipe Plugs—Socketed	
Holo-Krome Screw Corp The	West Hartford
Plastics	
B F Goodrich Sponge Products Division Shelton	
Humphrey Fabricating Corp (laminated, fabricated parts)	Unionville
Naugatuck Chemical Division United States Rubber Co	Naugatuck
Plastic Buttons	
Frank Parizek Manufacturing Co The	West Willington
Patent Button Co The	Waterbury
Plastic Gems	
Colt's Manufacturing Company	Hartford
Plastic Materials	
American Cyanamid Co (Molding Compounds, Adhesives, Laminating Resins)	Wallingford
Plastic Printing Plates	
Lockwood Sons Inc Wm H	Hartford
Plastics Machinery	
Black Rock Mfg Company The	Bridgeport
Farrel-Birmingham Company Inc	Ansonia
Plastic Molders	
Plastic Molding Corporation	Sandy Hook
Plastic Molding	
Butterfield, Inc T F	Naugatuck
U S Plastic Molding Corporation	Wallingford
Plastic Moulders	
Colt's Manufacturing Company	Hartford
Conn Plastics	Waterbury
Teal Molding Co Inc	New Haven
Waterbury Companies Inc	Waterbury
Watertown Mfg Co The	Watertown
Plastic Wire Coating Materials	
Electronic Rubber Co	Stamford
Plastic Molds & Dies	
Crown Tool & Die Co Inc	Bridgeport
Parker Stamp Works Inc The (for plastics)	Hartford
Plasticrete Bloc	
Plasticrete Corp	Hamden
Plates—Switch	
General Electric Company	Bridgeport
Platers	
Acme Chromium Plating Co	New Haven
Christie Plating Co	Groton
City Plating Works	Bridgeport
Patent Button Co The	Waterbury
Water Plating Company	Waterbury
Chromium Process Company The (Chromium Plating only)	Derby
Platers' Equipment	
Apothecaries Hall Company	Waterbury
Conn Metalcraft Inc	New Haven
Lea Manufacturing Co The	Waterbury
MacDermid Incorporated	Waterbury
Platers Metal	
Plume & Atwood Mfg Co The	Thomaston
Plating	
Christie Plating Co The (including lead plating)	Groton
Conn Metal Finishing Co	Hamden
Superior Plating Co	Bridgeport
Plating Processes and Supplies	
Enthone Inc	New Haven
United Chromium Incorporated	Waterbury
Plumbers' Brass Goods	
Bridgeport Brass Co	Bridgeport
Keeney Mfg Co The (special bends)	Newington
Scovill Manufacturing Company	Waterbury 48
Plumbing Specialties	
Risdon Manufacturing Co John M Russell Div	Naugatuck
Pneumatic Machinery	
Bourne Tool & Die Co (built designed & tooled)	Watertown
Pole Line Hardware	
Malleable Iron Fittings Co	Branford
Police Equipment	
The Smith-Worthington Saddlery Co	Hartford
Polishing	
Mirror Polishing & Buffing Co	Waterbury
Poly Chokes	
Poly Choke Company The (a shotgun choking device)	Tariffville
Postage Meters	
Pitney Bowes Inc	Stamford
Potentiometers—Electronic	
Bristol Company The	Waterbury
Power Rollers	
Consolidated Industries Inc	West Cheshire
Precision Electronic Chassis	
Saybrook Manufacturing Inc	Old Saybrook
Precision Machine Tool Spindles	
Whitson Manufacturing Co (for milling, grinding, boring & drilling)	Farmington
Precision Manufacturing	
Newton Co The (aircraft parts)	Manchester
Precision Revolving Machinery	
Whitson Manufacturing Co	Farmington
Precision Springs & Wire Forms	
Rowley Spring Co Inc The	Bristol
Prefabricated Buildings	
City Lumber of Bridgeport Inc The	Bridgeport
Premium Specialties	
Waterbury Companies Inc	Waterbury
Preservatives—Wood, Rope, Fabric ("Cellu-san")	
Darworth Incorporated ("Cuprinol")	Simsbury
Press Papers	
Case Brothers Inc	Manchester
Presses	
Farrel-Birmingham Company Inc (Hydraulic)	Ansonia
Presses—Molding	
Standard Machinery Co The (compression and transfer molding, automatic and semi-automatic)	Mystic
Presses—Power	
Pneumatic Applications Co The (modernization of presses through conversion to to Wichita Air Clutch operation)	Simsbury
Waterbury Farrel Foundry & Machine Co The	Waterbury
Pressure Vessels	
Norwalk Tank Co Inc The (unfired to ASME Code Par U 69-70)	South Norwalk
Whitlock Manufacturing Co The	Hartford
Printing	
Bussmann Press Inc	New Haven
Case Lockwood & Brainard A Division of Connecticut Printers Inc	Hartford
Finlay Brothers	Hartford
Heminway Corporation The	Waterbury
Hildreth Press	Bristol
Hunter Press	Hartford
Lehman Brothers Inc	New Haven
Taylor & Greenough Co The	Wethersfield
T B Simonds Inc	Hartford
A D Steinbach & Sons	New Haven
The Walker-Rackliff Company	New Haven
Printing Machinery	
Banthin Engineering Co (automatic)	Bridgeport
Thomas W Hall Company	Stamford
Printing Plates	
Lockwood Sons Inc Wm H	Hartford
Printing Rollers	
Chambers-Storck Company Inc The (engraved)	Norwich
Production Control Equipment	
Ripley Company Inc	Middletown
Production Welding	
Consolidated Industries	West Cheshire
Profilers	
Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford
Propellers—Aircraft	
Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment)	Windsor Locks
Protective Coatings	
Harrison Company The A S (Waxes)	South Norwalk
Publishers	
O'Toole & Sons Inc The	Stamford
Pumps	
Yale & Towne Mfg Co The	Stamford
Pumps—Small Industrial	
Eastern Industries Inc	New Haven
Pump Valves	
Colt's Manufacturing Company	Hartford
Punches	
Hoggson & Pettis Mfg Co The (ticket & cloth)	New Haven
141 Brewery St	New Haven
Putty Softeners—Electrical	
Fletcher Terry Co The	Box 415 Forestville
Pyrometers	
Bristol Co The (recording and controlling)	Waterbury
Radiation—Finned Copper	
Bush Manufacturing Co	West Hartford
G & O Manufacturing Company The	New Haven
Vulcan Radiator Co The (steel and copper)	Hartford
Raditors—Engine Cooling	
G & O Manufacturing Co	New Haven
Ratchet Offset Screw Driver	
Chapman Co J W	Durham
Rayon Staple Fiber	
Hartford Rayon Corp The	Rocky Hill
Reamers	
Pratt & Whitney Div Niles-Bement-Pond Co (All types)	West Hartford
Recorders	
Bristol Co The (automatic controllers, temperature, pressure, flow, humidity)	Waterbury
Reduction Gears	
Farrel-Birmingham Company Inc	Ansonia
Snow-Nabstedt Gear Corp The	New Haven
Refractories	
Howard Company	New Haven
Mullite Refractories Company The	Shelton
Refrigeration	
Bowser Technical Refrigeration Div Bowser Inc (high altitude, low temperature)	Terryville
Bush Manufacturing Co The	West Hartford
Regulators	
Norwalk Valve Company (for gas and air)	South Norwalk
Sorensen & Company Inc	Stamford
Research & Development	
Raymond Engineering Laboratories (Electro-Mechanical)	Middletown (Adv't.)

IT'S MADE IN CONNECTICUT

Resistance Wire	
C O Jelliff Mfg Co The (nickel chromium, copper nickel, iron chromium, aluminum)	Southport Stamford
Respirators	
American Optical Company Safety Products Division	Putnam
Retainers	
Hartford Steel Ball Co The (bicycle & automotive)	Hartford
Riveting Machines	
Grant Mfg & Machine Co The	Bridgeport
Ripley Company Inc	Middletown
H P Townsend Manufacturing Co The	Elmwood
Rivets	
Blake & Johnson Co The (brass, copper and non-ferrous)	Waterville
Clark Brothers Bolt Co	Milldale
Plume & Atwood Mfg Co The	Thomaston
Raybestos Div of Raybestos-Manhattan Inc The (brass and aluminum tubular and solid copper)	Bridgeport
Raybestos Div of Raybestos-Manhattan Inc The (iron)	Bridgeport
Rods	
American Brass Company The (copper, brass, bronze)	Waterbury
Bridgeport Brass Company	Bridgeport
Bristol Brass Corp The (brass and bronze)	Bristol
Scovill Manufacturing Company (brass and bronze)	Waterbury 91
Rollers—Bituminous Paving	
Gabb Special Products Div E Horton & Son Company	Windsor Locks
Roller Skate Wheels	
Raybestos Division of Raybestos-Manhattan Inc	Bridgeport
Roller Skates	
Arms and Ammunition Div Olin Mathieson Chemical Corp	New Haven
Rolling Mills & Equipment	
Farrel-Birmingham Company Inc	Ansonia
Fenn Mfg Co The	Newington
Precision Methods & Machines Inc	Waterbury
Waterbury Farrel Foundry & Machine Co The	Waterbury
Rolls	
Farrel-Birmingham Company Inc (Chilled and Alloy Iron, Steel)	Ansonia
Rope Wire	
American Steel & Wire Div of U S Steel	New Haven
Rubber Chemicals	
Naugatuck Chemical Division United States Rubber Co	Naugatuck
Stamford Rubber Supply Co The ("Factice" Vulcanized Vegetable Oils)	Stamford
Rubber—Cellular	
B F Goodrich Sponge Products Division	Shelton
Rubber Cutting Machinery	
Black Rock Mfg Company The	Bridgeport
Rubber Printing Plates	
Lockwood Sons Inc Wm H	Hartford
Rubberized Fabrics	
Duro-Gloss Rubber Co The	New Haven
Rubber Footwear	
Goodyear Rubber Co The	Middletown
Rubber Gloves	
Seamless Rubber Company The	New Haven
Rubber—Handmade Specialties	
Seamless Rubber Company The	New Haven
Rubber—Latex Foam	
B F Goodrich Sponge Products Division	Shelton
Rubber Latex Compounds and Dispersions	
Naugatuck Chemical Division United States Rubber Co (coating, impregnating and adhesive compounds)	Naugatuck
Rubber Mill Machinery	
Farrel-Birmingham Company Inc	Ansonia
Rubber Products	
Airex Rubber Prod Corp	Portland
Rubber—Molded Specialties	
Airex Rubber Prod Corp	Portland
Canfield Co The H O	Bridgeport
Seamless Rubber Company The	New Haven
Rubber Products—Mechanical	
Auburn Manufacturing Company The (washers, gaskets, molded parts)	Middletown
Canfield Co The H O	Bridgeport
Seamless Rubber Company The	New Haven
Rubber—Reclaimed	
Naugatuck Chemical Division United States Rubber Co	Naugatuck
Rubbers	
Naugatuck Chemical Div U S Rubber Co (special synthetic)	Naugatuck
Rubbish Burners	
John P Smith Co The	423-33 Chapel St New Haven
Rust Preventives	
Anderson Oil Co Inc F E	Portland
Saddlery	
The Smith-Worthington Saddlery Co	Hartford
Safety Clothing	
American Optical Company Safety Products Division	Putnam
Safety Fuses	
Ensign-Bickford Co The (mining & detonating)	Simsbury
Safety Gloves and Mittens	
American Optical Company Safety Products Division	Putnam
Safety Goggles	
American Optical Company Safety Products Division	Putnam
Safety Switches	
Trumbull Components Department, Electric Co	General Plainville
Saw Blades—Hack	
Capewell Mfg Co The	Hartford
Saw Blades—Hack & Band	
Capewell Manufacturing Company	Hartford
Saws, Band, Metal Cutting	
Atlantic Saw Mfg Co	New Haven
Scissors	
Acme Shear Company The	Bridgeport
Screens	
Hartford Wire Works Co The (Windows, Doors and Porches)	Hartford
Screw Caps	
Weimann Bros Mfg Co The (small for bottles)	Derby
Screw Machines	
H P Townsend Mfg Company The	Elmwood
Screw Machine Products	
Apex Tool Co Inc The	Bridgeport
Blake & Johnson Co The	Waterville
Consolidated Industries	West Cheshire
Dependable Automatic Screw Co	Waterbury
Eastern Machine Screw Corp The	New Haven
Truman & Barclay Sts	Winsted
Fairchild Screw Products Inc	Hartford
Franklin Screw Machine Co The (up to 1 1/2" capacity)	Hartford
Garthwait Mfg Co A E (up to and incl 1 1/2")	Waterbury
Greist Mfg Co The (Up to 1 1/2" capacity)	New Haven
Horberg Grinding Industries Inc (Heat treated and ground type only)	Bridgeport
19 Staples Street	Forestville
Humason Mfg Co The	West Haven
Kerrin Company	Wethersfield
Lowie Mfg Co The	Berlin
National Automatic Products Company The	Plantsville
Nelson's Screw Machine Products	New Britain
New Britain Machine Company The	New Britain
New Haven Screw Machine Prods Inc (up to 1 1/2" capacity)	Millford
Olsen Brothers Company (up to 3/4" capacity)	Plainville
Olsen & Sons R P	Southington
Peck Spring Co The	Plainville
Plume & Atwood Mfg Co The	Thomaston
Scovill Manufacturing Company	Waterbury 91
United Screw Machine Co	Thomaston
Waterbury Machine Tools & Products Co (Brown & Sharpe and Davenport)	Waterbury
Screw Machine Tools	
American Cam Company Inc (Circular Form Tools)	Hartford
Pratt & Whitney Div Niles-Bement-Pond Co (Reamers, Taps, Dies, Blades and Knurls)	West Hartford
Somma Tool Co (precision circular form tools)	Waterbury
Screws	
American Screw Company	Willimantic
Atlantic Screw Works (wood)	Hartford
Blake & Johnson Co The (machine and wood)	Waterville
Bristol Company The (socket set and socket cap screws)	Waterbury
Clark Brothers Bolt Co	Milldale
Eagle Lock Co The	Terryville
Holo-Krome Screw Corporation The (socket set and socket cap)	West Hartford
Scovill Manufacturing Company	Waterbury 91
Superior Manufacturing Co The	Winsted
Screw—Sockets	
Allen Manufacturing Company The	Hartford
Bristol Co The	Waterbury
Holo-Krome Screw Corp The	West Hartford
Sealing Tape Machines	
Better Packages Inc	Shelton
Service Entrance Equipment	
Trumbull Components Department, General Electric Co	Plainville
Sewing Machines	
Greist Mfg Co The (Sewing Machine attachments)	503 Blake St New Haven
Morrow Machine Co The (Industrial)	Hartford
Singer Manufacturing Company The (Industrial)	Bridgeport
Shaving Soaps	
J B Williams Co The	Glastonbury
Shears	
Acme Shear Co The (household)	Bridgeport
Shells	
Wolcott Tool and Manufacturing Company Inc	Waterbury
Sheet Metal Products	
American Brass Co The (brass and copper)	Waterbury
Merriam Mfg Co (security boxes, fitted tool boxes, tackle boxes, displays)	Durham
Charles Parker Co (sheet metal fabricators)	Meriden
Parsons Co Inc W A (fabricators)	Durham
Plume & Atwood Mfg Co The	Thomaston
United Manufacturing Co Division of The W L Maxson Corp	Hamden
Sheet Metal Stampings	
American Brass Company The	Waterbury
American Buckle Co The	West Haven
DeoVal Tool & Mfg Inc The	Naugatuck
J H Sessions & Son	Bristol
Patent Button Co The	Waterbury
Plume & Atwood Mfg Co The	Thomaston
Shipment Sealers	
Better Packages Inc	Shelton
Showcase Lighting Equipment	
Wiremold Company The	Hartford
Signals	
H C Cook Co The (for card files)	Ansonia
32 Beaver St	
Signs	
Berger Sign Co (neon electric-porcelain enamel-stainless steel)	Hartford
Silk Screen Process Printing	
Norton Co B H	New Haven
Silk Screen Printing	
Sirocco Screenprints	New Haven
Silk Screening on Metal	
Merriam Mfg Co (Displays and Specialties to order)	Durham
Sintered Metal Products	
Raybestos Division of Raybestos-Manhattan Inc	Bridgeport
Sizing and Finishing Compounds	
American Cyanamid Company	Waterbury
Slide Fasteners	
G E Prentice Mfg Co The	Kensington
North & Judd Manufacturing Co	New Britain
Slings	
American Steel & Wire Div of U. S. Steel	New Haven
Smoke Stacks	
Bigelow Company The (steel)	New Haven
Norwalk Tank Co The	South Norwalk
Soap	
J B Williams Co The (industrial soaps, toilet soaps, shaving soaps)	Glastonbury
Special Machinery	
Banthin Engineering Company (complete and/or parts)	Bridgeport
Boesch Mfg Co Inc	Danbury
Black Rock Mfg Company The	Bridgeport
Farrel-Birmingham Company Inc	Ansonia
Federal Machine & Tool Co	Bristol
Fenn Mfg Co The	Newington
H P Townsend Mfg Company The	Elmwood
National Sheradizing & Machine Co (mandrels & stock shells for rubber industry)	Hartford
Swan Tool & Machine Co The	Hartford
Special Parts	
Fenn Mfg Co The	Newington
Greist Mfg Co The (small machines, especially precision stampings)	New Haven
J H Sessions & Son	Bristol
Spinnings	
Gray Manufacturing Company The	Hartford
Spline Milling Machines	
Townsend Mfg Co The H P	Elmwood
Sponge Rubber	
B F Goodrich Sponge Products Division	Shelton
Spotwelding	
Spotwelders Inc (aluminum, steel, magnesium, titanium & alloys)	Stratford
Spray Painting Equipment and Supplies	
Lea Manufacturing Co The	Waterbury
Spring Coiling Machines	
Torrington Manufacturing Co The	Torrington (Advt.)

I T ' S M A D E I N C O N N E C T I C U T

Townsend Mfg Co The H P Spring Units	Elmwood	Storage Batteries	Glastonbury	Thread	Willimantic
Owen Silent Spring Division American Chain & Cable Company Inc	Bridgeport	R A E Storage Battery Mfg Co		Belding Heminway Corticelli	Putnam
Spring Washers		Straps, Leather		Max Pollack & Co Inc	Groton and Willimantic
Barnes Co The Wallace Div Associated Spring Corp	Bristol	Industrial, skate, carriage	Middletown	Wm Johl Manufacturing Co	Myatie
Spring Coils & Flat		Structural Mouldings	Hamden	Thread Chasers	
Barnes Co The Wallace Div Associated Spring Corp	Bristol	Leed Co The H A		Geometric Tool Division, Greenfield Tap & Die Corp.	New Haven
Bristol Spring Manufacturing Co	Plainville	Studio Couches	Waterbury	Thread Gages	Pratt & Whitney Div Niles-Bement-Pond Co
Foursome Manufacturing Co	Bristol	Waterbury Mattress Co		Thread Milling Machines	West Hartford
Humason Mfg Co The	Forestville	Mullite Refractories Company The	Shelton	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford
Newcomb Spring Corp The	Southington	Surface Metal Raceway & Fittings	Hartford	Thread Rolling Machinery	Hartford
New England Spring Manufacturing Company	Unionville	Wiremold Company The		Threading Machines	Bridgeport
Peck Spring Co The	Plainville	Surgical Dressings	East Killingly	Grant Mfg & Machine Co The (double and automatic)	Bridgeport
Spring-Flat		Acme Cotton Products Co Inc	New Haven	Timers, Interval	
Barnes Co The Wallace Div Associated Spring Corp	Bristol	Seamless Rubber Company The		A W Haydon Co The	Waterbury
Bristol Spring Manufacturing Co	Plainville	Switches—Electric	Bridgeport	H C Thompson Clock Co The	Bristol
Foursome Manufacturing Co	Bristol	General Electric Company		R W Cramer Company Inc The	Centerbrook
Humason Mfg Co The	Forestville	Swaging Machinery	Newington	Rhodes Inc M H	Hartford
Spring—Furniture		Fenn Mfg Co The	Hartford	Timing Devices	Waterbury
Owen Silent Spring Division American Chain & Cable Company Inc	Bridgeport	Hartford Special Machinery Co The		Lux Clock Manufacturing Company	Waterbury
Spring—Wire		Distribution Assemblies Department, General Electric Co	Plainville	Rhodes Inc M H	Hartford
Barnes Co The Wallace Div Associated Spring Corp	Bristol	Switchboards Wire and Cables	New Haven	Seth Thomas Clocks	Thomaston
Bristol Spring Manufacturing Co	Plainville	Rockbestos Products Corp (asbestos insulated)		United States Time Corporation The	Waterbury
Colonial Spring Corporation The	Hartford	Synthetic Resins		Timing Devices & Time Switches	Waterbury
Connecticut Spring Corporation The	Hartford	American Cyanamid Co (Textile Resins, Paper Resins)	Waterbury	A W Haydon Co The	Waterbury
Foursome Manufacturing Co	Bristol	Tabulating Equipment—Manual	Woodbury	Lux Clock Manufacturing Company	Waterbury
Humason Mfg Co The	Forestville	Denominator Company Inc		M H Rhodes Inc	Hartford
D R Templeman Co (coil and torsion)	Plainville	Tags	Waterbury	Tinning	
J W Bernston Company (coil and torsion)	Southington	Waterbury Tag Company The (Paper and Cloth)		Thinsheet Metals Co The (non-ferrous metals in rolls)	Middletown
Newcomb Spring Corp The		Tanks	New Haven	Wilcox-Crittenden Div North & Judd Mfg Co	Middletown
Spring, Wire & Flat	Oakville	Bigelow Company The (steel)		Tool Hardening	Bridgeport
Autoyre Company The		Connecticut Welders Inc (steel, alloy & lined)	Wallingford	Tools	Hoggson & Pettis Mfg Co The (rubber workers)
Stamped Metal Products	Waterbury	Norwalk Tank Co The	South Norwalk	Hoggson & Pettis Mfg Co The (rubber workers)	141 Brewery St
Stamps		Rolock Inc (Alloy)	Fairfield	Tool Chests	Vanderman Manufacturing Co The Willimantic
Hoggson & Pettis Mfg Co The (steel)	New Haven	Storts Welding Company (steel and alloy)	Meriden	Tool & Dies	C & H Mfg Co Inc
Parker Stamp Works Inc The (steel)	Hartford	Tape	Russell Manufacturing Company The (woven cotton and woven glass tape)	Watertown	Lambro Tool-Die & Mfg Co
Stampings	Watertown	Tapes—Industrial Pressure Sensitive	Middletown	Bridgeport	Metropolitan Tool & Die
C & H Mfg Co Inc		Seamless Rubber Company The	New Haven	Hartford	Moore Special Tool Co
Donahue Mfg Co Inc	Naugatuck	Tape Recorders	Meriden	Bridgeport	Swan Tool & Machine Co The
DooVal Tool & Mfg Inc The	Bristol	Conn Telephone & Electric Corp Subsidiary of Great American Industries Inc		Hartford	
Foursome Manufacturing Co	Thomaston	Tape Recorder Magazines	Meriden	Tools, Dies & Fixtures	Greist Mfg Co The
Plume & Atwood Mfg Co The (small)	Old Saybrook	Conn Telephone & Electric Corp Subsidiary of Great American Industries Inc		New Haven	
Saybrook Manufacturing Inc	New Britain	Tap Extractors	West Hartford	Tools, Dies, Jigs & Fixtures	O.S.A. Manufacturing Co
Stanley Pressed Metal		Walton Company The		Plainville	Otterbein Co J A
Stampings—Small	Bridgeport	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	Middletown	Riverside Mfg Co Inc The
Acme Shear Co The	Bristol	Brownell & Co Inc	Moodus	New Haven	Telke Tool & Die Mfg Co
Barnes Co The Wallace Div Associated Spring Corp	Plainville	Bristol Co The	Waterbury	Tools, Fixtures, Gauges	Fredericks Tool Co J F
Bristol Spring Manufacturing Co	New Haven	Telephone Answering & Recording Machines	Meriden	West Hartford	Toroidal Winding Machines
Greist Manufacturing Co The	Forestville	Conn Telephone & Electric Corp Subsidiary of Great American Industries Inc		Danbury	Boesch Mfg Co Inc
Humason Mfg Co The		Testers—Insulation	New Haven	Toys	Geo S Scott Mfg Co The
Stationery Specialties	Waterbury	McNeal J D	Wallingford	Wallingford	Gong Bell Co The
Steel	New Britain	Davis Electric Company		East Hampton	N N Hill Brass Co The
Farrel-Birmingham Company Inc	Ansonia	Testers—Non-Destructive	Danbury	East Hampton	Waterbury Companies Inc
Hartford Electric Steel Corp The (Carbon, low alloy and stainless steel and Ductile iron)	Durham	Sperry Products Inc		Waterbury	
Valleable Iron Fittings Co	Branford	Textile Machinery	Merrow Machine Co The	Tramways	American Steel & Wire Div of U S Steel
Nutmeg Crucible Steel Co	Branford	2814 Laurel St	Hartford	New Haven	
Steel—Cold Rolled Spring	Bristol	Ernst Bischoff Company Inc	Ivoryton	Transformers	Berkshire Transformer Corp The
Steel—Cold Rolled Stainless	Wallingford	Polymer Industries Inc	Springdale	New Milford	Dano Electric Company
Wallingford Steel Company	Wallingford	Textile Mill Supplies		Winsted	
Steel—Cold Rolled Strip and Sheets	New Haven	Textile Printing Gums	Textile Processors	Trucks—Commercial	Metropolitan Body Company (International Harvester truck chassis and "Metro" bodies)
American Steel & Wire Div of U S Steel	New Haven	American Dyeing Corporation (rayon, acetate, nylon, dacron, other synthetics)	Rockville	Bridgeport	
Detroit Steel Corporation	New Haven	Thermometers	Bristol Co The (recording and automatic control)	Trucks—Industrial	George P Clark Co
Wallingford Steel Company	Wallingford	Manning Maxwell & Moore Inc	Stratford	Windsor Locks	
Merriam Mfg Co (sheets products to order)	Durham	Bridgeport Thermostat Company Inc (automatic)	Bridgeport	Stamford	Excelsior Hardware Co The
Steel—Hot Rolled Strip	Bridgeport	Thin Gauge Metals	Thomaston	Windsor Locks	
Steel Rolling Rules	Milford	Plume & Atwood Mfg Co The		Stamford	Excelsior Hardware Co The (lift)
Waterbury Lock & Specialty Co The	New Britain	Thinsheet Metals Co The (plain or tinned in rolls)	Waterbury	Tube Bending	Donahue Mfg Co Inc
Stanley Works The	New Britain			Watertown	
Stereotypes	New Haven			Tube Clips	H C Cook Co The (for collapsible tubes)
New Haven Electrotype Div	New Haven			Ansonia	32 Beaver St
Stop Clocks, Electric	Bristol			Derby	Weimann Bros Mfg Co The (for collapsible tubes)
H C Thompson Clock Co The				Waterbury	Scovill Mfg Co ("Uniflare")
				Standard Machinery Co The (tubers for both rubber and plastic industries)	Myatie (Advt.)

IT'S MADE IN CONNECTICUT

Tubes—Collapsible Metal	
Sheffield Tube Corp The	New London
Tubing	
American Brass Co The (brass and copper)	Waterbury
Bridgeport Brass Company (brass and copper)	Bridgeport
G & O Manufacturing Co (finned)	New Haven
Scovill Manufacturing Company (Brass and Copper)	Waterbury 91
Tubing—Flexible Metallic	
American Brass Co Metal Hose	Waterbury
Tubing—Heat Exchanger	
American Brass Company The	Waterbury
Scovill Manufacturing Company	Waterbury 91
Tumbling Barrels	
Henderson Bros Co The	Waterbury
Tumbling Equipment & Supplies	
Tumbling Sales & Service Company	Greenwich
Tumbling Service	
Tumbling Sales & Service Company, Esbec	Meriden
Typewriters	
Royal Typewriter Co Inc	Hartford
Underwood Corporation	Hartford
Typewriters—Portable	
Royal Typewriter Company Inc	Hartford
Underwood Corporation	Hartford
Typewriter Ribbons and Supplies	
Royal Typewriter Company Inc	Hartford
Underwood Corporation	Hartford and Bridgeport
Ultrasonic Processing Equipment	
General Ultrasonics Co The	Hartford
Underclearer Rolls	
Sonoco Products Co (Climax-Lowell Div)	Mystic
Vacuum Bottles and Containers	
American Thermos Bottle Co	Norwich
Vacuum Cleaners	
Electrolux Corporation	Old Greenwich
Spencer Turbine Co The	Hartford
Valves	
Norwalk Valve Company (sensitive check valves)	South Norwalk
Valve Discs	
Colt's Manufacturing Company	Hartford
Valve—Automobile Tire	
Bridgeport Brass Company	Bridgeport
Valves—Radiator Air	
Bridgeport Brass Company	Bridgeport
Valves—Relief & Control	
Beaton & Caldwell Mfg Co	New Britain
Valves—Safety & Relief	
Manning Maxwell & Moore Inc	Stratford
Vanity Boxes	
Bridgeport Metal Goods Mfg Co	Bridgeport
Plume & Atwood Manufacturing Co	Thomaston
Varnishes	
Staminit Corp The	New Haven
Vegetable Peelers	
Colt's Manufacturing Company	Hartford
Velvets	
American Velvet Co (owned and operated by A Wimpfheimer & Bro Inc)	Stonington
Leiss Velvet Mfg Co Inc The	Wilimantic
Velvet Textile Corporation The (Velveteen)	West Haven
Venetian Blinds	
Findell Manufacturing Company	Manchester
Jennings Company The S Barry	New Haven
New England Shade & Blind Co Inc	Durham
Venetian Blind Tape	
Russell Manufacturing Company The (woven cotton and woven plastic)	Middletown
Ventilating Systems	
Colonial Blower Company	Plainville
Vertical Shapers	
Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford
Vibrators—Pneumatic	
Brantford Co The (Industrial)	New Haven
Vinyl Extrusion & Moulding Compounds	
Electronic Rubber Co	Stamford
Vises	
Charles Parker Co The	Meriden
Manufacturing Company The (Quick Action Vises)	Newington
Vanderman Manufacturing Co The (Combination Bench Pipe)	Willimantic
Wall Paper	
Stamford Wall Paper Co Inc	Stamford
Washers	
American Felt Co (felt)	Glenville
Auburn Manufacturing Company The (all materials)	Middletown
Blake & Johnson The (brass, copper & non-ferrous)	Waterville
Washers (Continued)	
Clark Brothers Bolt Co	Milldale
Humphrey Fabricating Corp	Unionville
Plume & Atwood Mfg Co The (brass & copper)	Thomaston
J H Rosenbeck Inc	Torrington
Saling Manufacturing Company (made to order)	Unionville
Washers—Felt	
Chas W House & Sons Inc (Mills & Cutting Plant)	Unionville
Watches	
E Ingraham Co The	Bristol
United States Time Corporation The	Waterbury
Water Heaters	
Whitlock Manufacturing Co The (instantaneous & storage)	Hartford
Water Heaters—Electric	
Bauer & Company Inc	Hartford
Water Heaters—Gas or Kerosene	
Holyoke Heater Corp of Conn Inc	Hartford
Waxes	
Harrison Company The A S (and other protective coatings)	South Norwalk
Waxes—Floor	
Fuller Brush Co The	Hartford
Wedges	
Saling Manufacturing Company (hammer & axe)	Unionville
Welding	
Connecticut Welders Inc (fabrication & repairs)	Wallingford
Farrel-Birmingham Company Inc	Ansonia
G E Wheeler Company (Fabrication of Steel & Non-Ferrous Metals)	New Haven
Industrial Welding Company (Equipment Manufacturers—Steel Fabricators)	Hartford
Welding—Lead	
Connecticut Welders Inc (tanks & coils)	Wallingford
Storts Welding Company (tanks and fabrication)	Meriden
Welding Rods	
American Brass Company The	Waterbury
Bridgeport Brass Company	Bridgeport
Bristol Brass Co The (brass & bronze)	Bristol
Wheels—Industrial	
George P Clark Co	Windsor Locks
Wicks	
Auburn Manufacturing Company The (felt, asbestos)	Middletown
Holyoke Heater Corp of Conn Inc	Hartford
Wiffle Ball	
Wiffle Ball Inc The	New Haven
Window & Door Guards	
Hartford Wire Works Co The	Hartford
Smith Co The John P	New Haven
Window Shades	
New England Shade & Blind Co Inc	Durham
Wiping Cloths	
Federal Textile Corporation	New Haven
Wire	
American Brass Company The	Waterbury
American Steel & Wire Div of U S Steel	New Haven
Atlantic Wire Co The (steel)	Branford
Bartlett Hair Spring Wire Co The (hair spring)	North Haven
Bridgeport Brass Company (brass and silicon bronze)	Bridgeport
Bristol Brass Corp The (brass & bronze)	Bristol
Driscol Wire Co The (steel)	Shelton
Hudson Wire Co Winsted Div (insulated & enameled magnet)	Winsted
Platt Bros & Co The (zinc wire)	P O Box 1030
Plume & Atwood Mfg Co The (brass, bronze, nickel silver)	Thomaston
Scovill Manufacturing Company (Brass, Bronze and Nickel Silver)	Waterbury 91
Wire and Cable	
General Electric Company (for residential, commercial and industrial applications)	Bridgeport
Rockbestos Products Corporation (all asbestos, mining, shipboard and appliance applications)	New Haven
Wire Arches & Trellises	
Hartford Wire Works Co The	Hartford
John P Smith Co The	New Haven
423-33 Chapel St	
Wire Baskets	
Wiretex Mfg Co Inc (Industrial, for acid, heat, treating and degreasing)	Bridgeport
Wire Cloth	
Hartford Wire Works Co The	Hartford
C O Jelliff Mfg Co The (all metal, all meshes)	Southport
Pequot Wire Cloth Co Inc	Norwalk
Rolock Inc (Alloy)	Fairfield
Smith Co The John P	New Haven
Wire Drawing Dies	
Waterbury Wire Die Co The	Waterbury
Wire Dipping Baskets	
Hartford Wire Works Co The	Hartford
John P Smith Co The	New Haven
423-33 Chapel St	
Wire Formings	
Autoyre Co The	Oakville
G E Prentice Mfg Co The	Kennington
Master Engineering Company	West Cheshire
North & Iudd Manufacturing Co	New Britain
Turner & Seymour Manufacturing Co The	Torrington
Verplex Company The	Essex
Wire Forms	
Barnes Co The Wallace Div Associated Spring Corp	Bristol
Bristol Spring Manufacturing Co	Plainville
Colonial Spring Corporation The	Hartford
Connecticut Spring Corporation The	Hartford
Foursome Manufacturing Co	Bristol
Gemco Manufacturing Co Inc	Southington
Humason Mfg Co The	Forestville
New England Spring Mfg Co	Unionville
Templeman Co D R	Plainville
Terryville Manufacturing Co	Terryville
Wire Goods	
American Buckle Co The (overall trimmings)	West Haven
Patent Button Co The	Waterbury
Scovill Manufacturing Company (To Order)	Waterbury 91
Wire Partitions	
Hartford Wire Works Co The	Hartford
John P Smith Co The	New Haven
423-33 Chapel St	
Wire Products	
Clairglow Mfg Company	Portland
Humason Mfg Co The	Forestville
Plume & Atwood Mfg Co The (to order)	Thomaston
Wire Reels	
A H Nilson Mach Co The	Bridgeport
Wire Rings	
American Buckle Co The (pan handles and tinnings' trimmings)	West Haven
Humason Mfg Co The	Forestville
Templeman Co D R	Plainville
Wire Rope and Strand	
American Steel & Wire Div of U S Steel	New Haven
Wire—Specialties	
Andrew B Hendryx Co The	New Haven
Wooden Boxes	
Wallingford Planing Mill Co Inc	Yalesville
Wood Scrapers	
Fletcher-Terry Co The	Forestville
Woodwork	
C H Dresser & Sons Inc (Mfg all kinds of woodwork)	Hartford
Hartford Builders Finish Co	Hartford
Woven Felts—Wool	
Chas W House & Sons Inc (Mills & Cutting Plant)	Unionville
Yarns	
Hartford Spinning Incorporated (Woolen, knitting and weaving yarns)	Unionville
Aldon Spinning Mills Corporation The (fine-woolen and specialty)	Talcottville
Ensign-Bickford Co The (Jute-carpet)	Simsbury
Zinc	
Platt Bros & Co The (ribbon, strip and wire)	Waterbury
P O Box 1030	
Zinc Castings	
Newton-New Haven Co Inc	688 Third Ave
	West Haven
	(Advt.)

Accounting Hints

(Continued from page 57)

made it possible to reduce the size of the machine while increasing its speed. Transistors are tiny germanium devices no bigger than a paper clip, which are substituted for vacuum tubes. They need little power to operate, are simple in construction, and are durable. With these advantages, transistors will be used more and more in data processing machines.

The second new development recently announced is the IBM 305—a "random access" memory device of vast capacity for the storage of information. Designed for "in-line" processing, the "305" stores 5-million characters, and when combined in multiple units for use with a single electronic data processing system, will provide a business information memory bin of almost unlimited capacity. This unit will be used with some existing punched card and magnetic tape equipment, and also will be the heart of a new line of data processing machines.

"Random access storage and in-line processing are great steps toward the achievement of up-to-the-minute accounting procedures," says Thomas J. Watson, Jr. "Management must be



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provided with rapid, accurate reporting methods which narrow the critical gaps between a business problem, the collection of the facts, the decision, and the action taken. Finally, these goals must be attained at the right price and without imposing a heavier burden on the office employee."

Management and the office group are closely related and highly dependent on one another. For office employees must supply the facts on which management base its decisions, and on these decisions rests the successful operation of the company. Electronic machines greatly facilitate the assimilation, processing and transmittal of essential information, and the end result of this improved communication will benefit everyone in the company, its stockholders, and the economy as well. This is why electronic data processing is rapidly becoming an indispensable part of business operations.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912, OF CONNECTICUT INDUSTRY, published monthly at Hartford, Conn., October 1, 1955.

STATE OF CONNECTICUT
COUNTY OF HARTFORD

Before me, a Commissioner of the Superior Court, in and for the State and County aforesaid, personally appeared L. M. Bingham, who, having been duly sworn according to law, deposes and says that he is the Editor of the CONNECTICUT INDUSTRY and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication, for the date shown in the above caption, required by the Act of August 24, 1912, embodied in Section 233, Postal Laws and Regulations, printed on the reverse of this form to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

Editor L. M. BINGHAM
Publisher MANUFACTURERS' ASSOC. OF CONN.
Managing Editor N. W. FORD

2. That the owner is the Manufacturers' Association of Connecticut, a non-profit corporation.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of bona fide owners, and this affiant has no reason to believe that any other person, association or corporation has any interest direct or indirect in the said stock, bonds, and other securities than as so stated by him.

L. M. BINGHAM,
Editor.

Sworn to and subscribed before me this 20th day of September, 1955

FREDRICK H. WATERHOUSE
Commissioner of Superior Court.


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